#### Pioneer sound.vision.soul



ORDER NO. CRT4117

**CD RDS RECEIVER** 

### DEH-P7000UB/X1PEW5







This service manual should be used together with the following manual(s) listed below. For the parts numbers, adjustments, etc. which are not shown in this manual, refer to the following manual(s).

Model No.	Order No.	Mech. Module	Remarks
DEH-P7000UB/XN/EW5	CRT4091		
CX-3240	CRT4050	S10.5COMP2- iPod/USB	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

## EXPLODED VIEWS AND PARTS LIST PACKING(Page 32) PACKING SECTION PARTS LIST Mark No

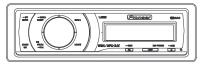
\*:Non spare part

Mark	No.	Description	DEH-P7000UB/XN/EW	DEH-P7000UB/X1PEW5
	12	Polyethylene Bag	CEG1227	CEG-162
	13	Unit Box	CHG6391	CHG6404
	14	Contain Box	CHL6391	CHL6404
	25	Owner's Manual Assy	CXC9690	CXC9905

DEH-P7000UB/X1PEW5

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ORDER NO. CRT4091

DEH-P7000UB/XN/EW5

**CD RDS RECEIVER** 

## DEH-P7000UB,XN/EW5

#### This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3240	CRT4050	S10.5COMP2- iPod/USB	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



#### SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

Safety Precautions for those who Service this Unit.

When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

#### Caution:

- 1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.

#### **CAUTION:**

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

#### CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

Refer all servicing to qualified personnel.



#### WARNING!

The AEL (accessible emission level ) of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.

A specially instructed person should do servicing operation of the apparatus.

#### Laser diode characteristics

Wave length: 785 nm to 814 nm

Maximum output: 1 190 W(Emitting period: unlimited)

#### Additional Laser Caution

Transistors Q101 in PCB drive the laser diodes.

When Q101 is shorted between their terminals, the laser diodes will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

**CAUTION** 

Danger of explosion if battery is incorrectly replaced.

Replaced only with the same or equivalent type recommended by the manufacture.

Discord used batteries according to the manufacture's instructions.

DEH-P7000UB/XN/EW5

**■** 8

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

#### Product safety



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Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

(5) Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

DEH-P7000UB/XN/EW5

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#### 1. SERVICE PRECAUTIONS

#### 1.1 SERVICE PRECAUTIONS



- You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- After replacing the pickup unit, be sure to check the grating.
- Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- 6. EJECT LOCK MODE for CD mechanism In order to enter "EJECT LOCK" mode, reset start while pressing the "DISP" and "BAND/ESC" keys together. Pressing the "DISP" and "BAND/ESC" keys until monitor backlight is turned on. In order to exit "EJECT LOCK" mode, follow the same steps to enter this mode.

#### 1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.

  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40° C.
   Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373° C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.
- Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
- GYP1006 1.0 in dia.
- GYP1007 0.6 in dia.
- GYP1008 0.3 in dia.

#### 2. SPECIFICATIONS

#### 2.1 SPECIFICATIONS

Specifications	
General Power source14.4 V DC (10.8 V to 15.1 allowable)	٧
Grounding systemNegative type  Max. current consumption	
Chassis 180 mm × 50 mm × 165 mm  Nose	n
D Chassis 180 mm × 50 mm × 165 mm	
Nose 170 mm × 45 mm × 18 mn Weight 1.5 kg	n
Audio Maximum power output 50 W $\times$ 4 50 W $\times$ 2/4 $\Omega$ + 70 W $\times$ 1/2	2
$\Omega$ (for subwoofer) Continuous power output 22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 $\Omega$ load, both channels driven)	th
Load impedance	
Preout max output level 4 V Equalizer (7-Band Graphic Equalizer): Frequency	5 k
Gain±12 dB HPF:	
Frequency50/63/80/100/125 Hz Slope12 dB/oct Subwoofer (mono):	
Frequency	
Bass boost: Gain+12 dB to 0 dB	
CD player  System	m
MDC deceding former MDEC 1.9.0 Audio Lours	_

MP3 decoding format ....... MPEG-1 & 2 Audio Layer 3 WMA decoding format ...... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)

(Windows Media Player)

AAC decoding format	MPEG-4 AAC (iTunes®
	encoded only) (.m4a)
	(Ver. 7.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM
	(Non-compressed)
LICD	

USB
SpecificationUSB 2.0 full speed
Supply current500 mA
Maximum amount of memory
250 GB
File systemFAT16, FAT32
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11 (2ch
audio)
(Windows Media Player)
AAC decoding format MPEG-4 AAC (iTunes®
encoded only) (.m4a)
(Ver. 7.2 and earlier)
WAV signal formatLinear PCM & MS ADPCM
(Non-compressed)
, ,

FM tuner	
Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
	S/N: 30 dB)
Signal-to-noise ratio	75 dB (IEC-A network)

MW tuner	
Frequency range	531 kHz to 1 602 kHz (9kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

LW tuner	
Frequency range153 kHz to 281 kHz	
Usable sensitivity30 µV (S/N: 20 dB)	
Signal-to-noise ratio65 dB (IEC-A netwo	rk)



Specifications and the design are subject to modifications without notice due to improvements.

DEH-P7000UB/XN/EW5

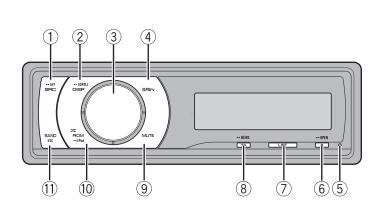
#### 2.2 DISC/CONTENT FORMAT

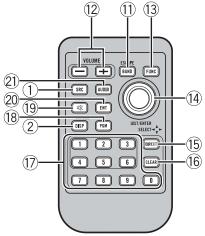






#### 2.3 PANEL FACILITIES





#### What 's What

#### Head unit

1 SRC/OFF button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

- ② DISP/SCROLL button Press to select different displays. Press and hold to scroll the text information.
- ③ MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

- ④ S.Rtrv button Press to switch Sound Retriever settings.
- ⑤ RESET button Press to reset the microprocessor.
- © EJECT/OPEN button Press to eject a CD from your built-in CD player.

Press and hold to open or close the front panel.

#### ① LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

TA/NEWS button

Press to turn TA function on or off. Press and hold to turn NEWS function on or off.

9 MUTE button

Press to turn off the sound. To turn on the sound, press again.

RDM/>
/iPod button

Press to turn random function on or off while using CD or USB.

While using iPod, press this button to shuffle all tracks.

Press and hold to switch the control mode while using an iPod connected USB connector of this unit.

If using the iPod with an interface adapter (CD-IB100II), press to switch the shuffle function.

BAND/ESC button

Press to select among three FM bands and MW/LW bands.

Press to return to the ordinary display when operating menu.

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#### Remote control

Operation is the same as when using the buttons on the head unit.

- VOLUME buttons
   Press to increase or decrease the volume.
- ③ FUNCTION button Press to select functions.

#### 14 Thumb pad

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Functions are the same as MULTI-CONTROL except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

- ⑤ DIRECT button Press to directly select the desired track.
- © CLEAR button Press to cancel the input number when 0 to 9 are used.

#### 7 0 to 9 buttons

Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

#### ® PGM button

Press to operate the preprogrammed functions for each source.

MUTE button
 Press to turn off the sound. To turn on the sound, press again.

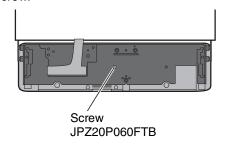
② ENT button Press to change to the entertainment display.

#### ② AUDIO button

Press to select various sound quality controls.

#### Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw

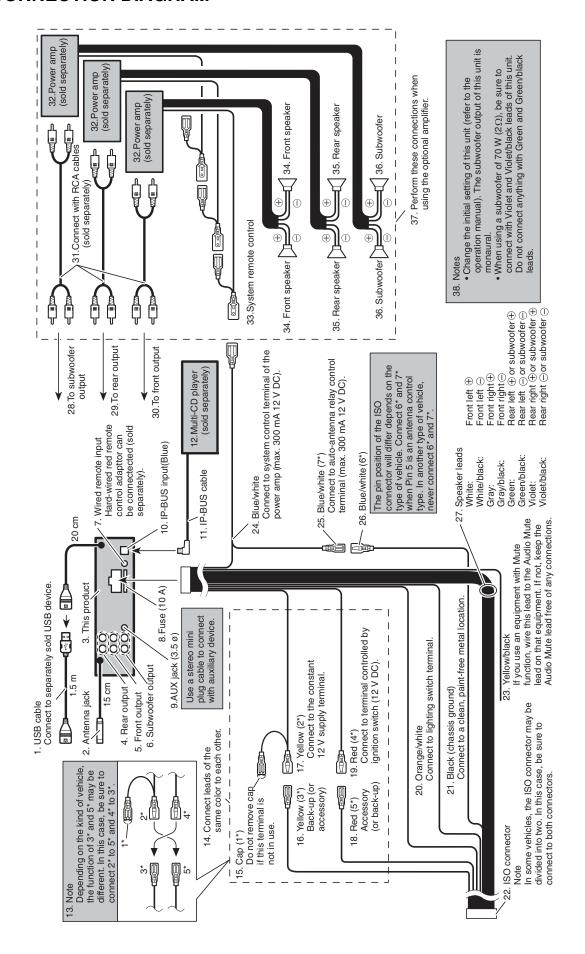


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#### 2.4 CONNECTION DIAGRAM



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#### 3. BASIC ITEMS FOR SERVICE

#### 3.1 CHECK POINTS AFTER SERVICING

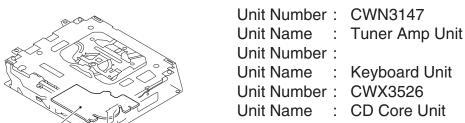
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved.	The customer complain must not be reappeared.  Display, audio and operations must be normal.
		If the customer complain occurs with the specific media, use it for the operation check.	Display, audio and operations must be normal.
2	CD	Play back a CD. (Track search)	No malfunction on display, audio and operation. Display, audio and operations must be normal.
3	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
5		Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio:

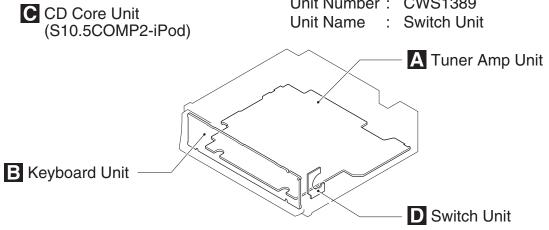
Item to be checked regarding audio	
Distortion	
Noise	
Volume too low	
Volume too high	
Volume fluctuating	
Sound interrupted	

#### 3.2 PCB LOCATIONS



(S10.5COMP2-iPod)

Unit Number: CWS1389 : Switch Unit Unit Name



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#### 3.3 JIGS LIST

#### Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

#### Grease List

Name	Grease No.	Remarks
Grease	GEM1024	Drive Unit, CD Mechanism Module
Grease	GEM1041	Drive Unit
Grease	GEM1045	CD Mechanism Module
Grease	GEM1069	Drive Unit

#### ■ 3.4 CLEANING



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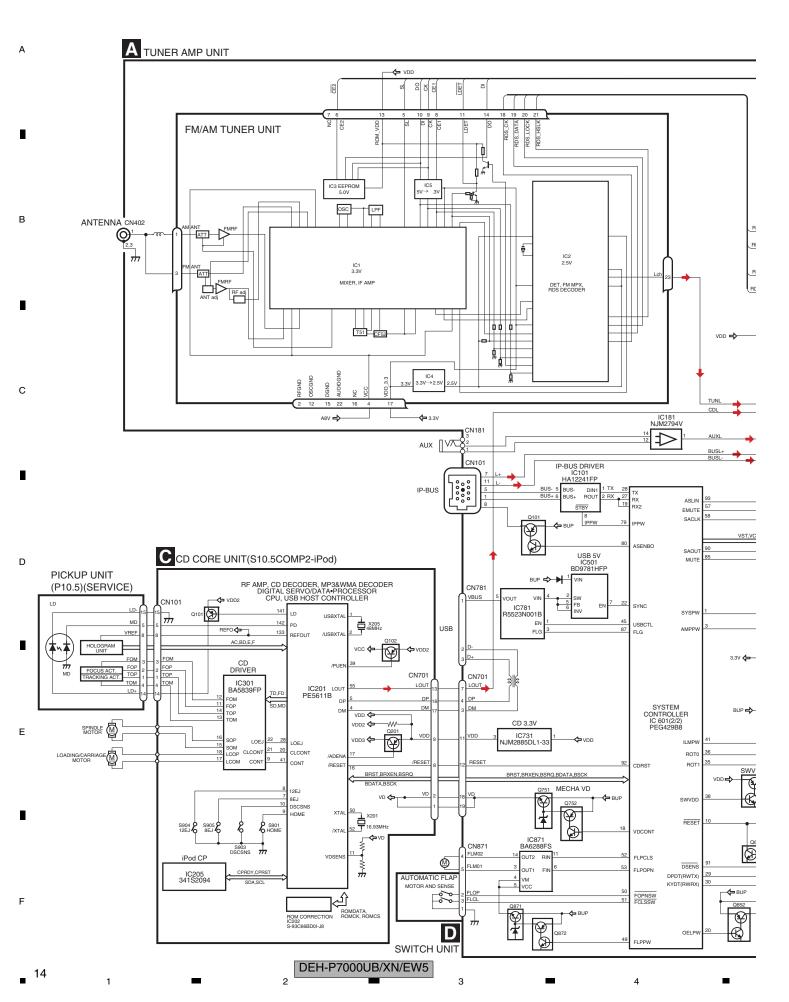
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

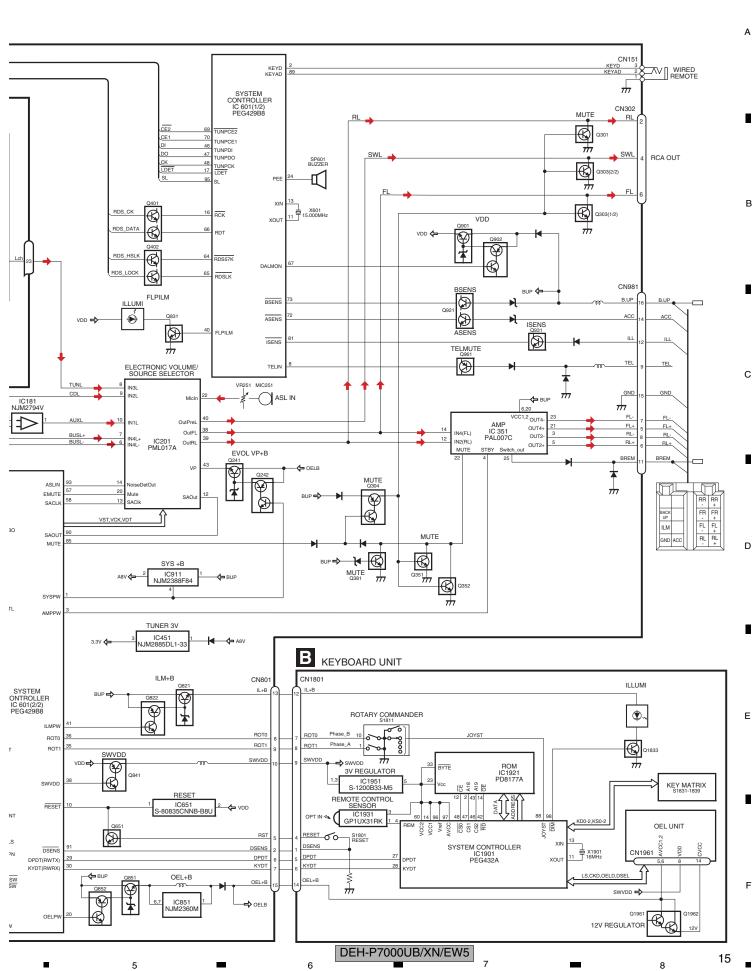
Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper: GED-008

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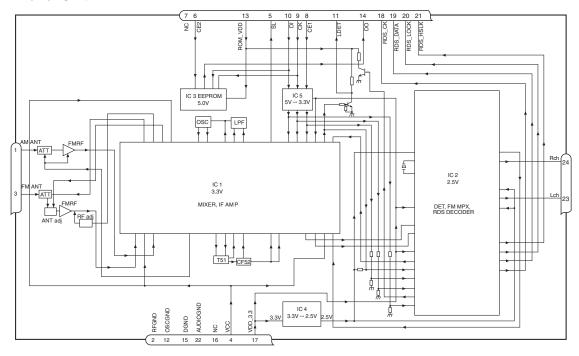
#### 4. BLOCK BIAGRAM





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#### ■ FM/AM Tuner Unit



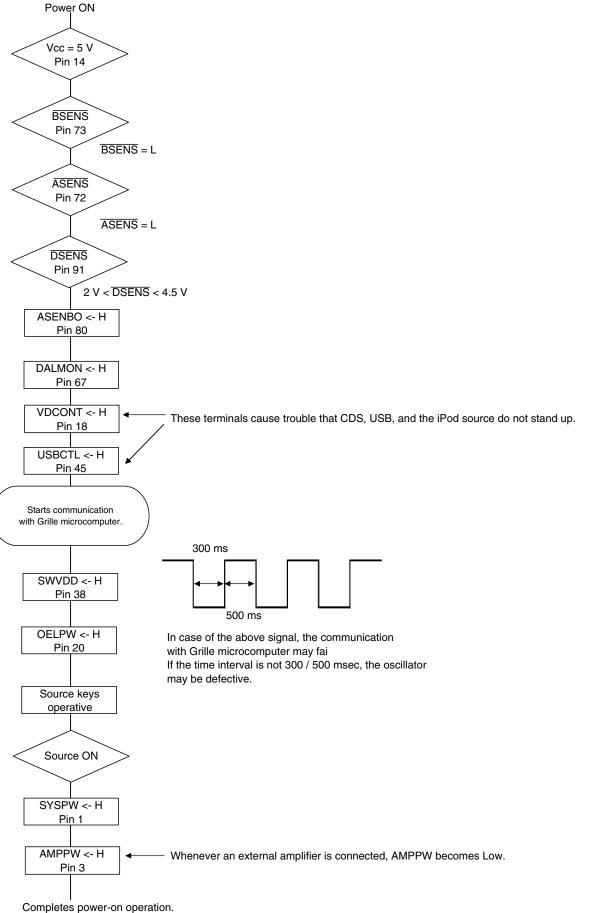
No.	Symbol	I/O	Explain		
1	AMANT	ı	AM antenna input	AM antenna input high impedance AMANT pin is connected with	
				an all antenna by way of 4.7 µH. (LAU type inductor) A series circuit	
				including an inductor and a resistor is connected with RF ground for	
				the countermeasure against the hum of power transmission line.	
2	RFGND		RF ground	Ground of antenna block	
3	FMANT	1	FM antenna input	Input of FM antenna 75 $\Omega$ Surge absorber(DSP-201M-S00B)is necessary.	
4	VCC		power supply	The power supply for analog block. D.C 8.4 V ± 0.3 V	
5	SL	0	signal level	Output of FM/AM signals level	
6	CE2	1	chip enable-2	Chip enable for EEPROM "Low" active input	
7	NC		non connection	Not used	
8	CE1	ı	chip enable-1	Chip enable for AF•RF "High" activev input	
9	CK	1	clock	Clock input	
10	DI	-	data in	Data input	
11	LDET	0	lock detector	"Low" active output	
12	OSCGND		osc ground	Ground of oscillator block	
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of	
				micro computer.	
14	DO	0	data out	ata out Data output	
15	DGND		digital ground	Ground of digital block	
16	NC		non connection	Not used	
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V ± 0.2 V	
18	RDS_CK	0	RDS clock	Output of RDS clock(2.5 V)	
19	RDS_DATA	0	RDS data	Output of RDS data(2.5 V)	
20	RDS_LOCK	0	RDS lock	Output unit "High" active(2.5 V) (RDS_LOCK turns over by the	
				external transistor. "Low" active)	
21	RDS_HSLK	0	RDS high speed	Output unit "High" active(2.5 V)(RDS_HSLK turns over by the	
			lock	external transistor. "Low" active)	
22	AUDIOGND		audio ground	Ground of audio block	
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output	
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output	

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#### 5. DIAGNOSIS

#### 5.1 OPERATIONAL FLOWCHART



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(After that, proceed to each source operation)

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#### 5.2 ERROR CODE LIST

#### Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

#### (1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

#### 2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

#### (2) Error Code List

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Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG	CRG can't be moved to inner diameter.
		SERVO LSI Com-	CRG can't be moved from inner diameter.
		munication Error	-> Failure on home switch or CRG move mechanism.
			Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available.
			-> Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG	Spindle not locked. Sub-code is strange (not readable).
		Subcode NG	-> Failure on spindle, stains or damages on disc, or excessive vibrations.
			A disc not containing CD-R data is found.
			Turned over disc are found, though rarely.
			CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost.
			-> Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address.
			-> CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track.
			(CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON.
			-> Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted.
			-> Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

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#### iPod error

Message	Cause	Action
NO SONGS	No songs in the iPod	Transfer the songs to the iPod.
STOP	No songs in the current list	Select a list that contains the songs.
ERROR-19	Communication failure iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
ERROR-18	Old version of the iPod	Update the iPod version.
N/A USB	iPod failure	Reset the iPod.
	Old version of the iPod	Update the iPod version.
ERROR-16	iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
		Turn the ignition switch OFF and ON.
		Malfunction of iPod recognition IC.
CHECK USB	iPod is not charged but operates correctly.	Check if the connection cable for the iPod shorted out. After checking, switch the ignition key OFF and ON, or disconnect the iPod and connect again.

#### USB error

Message	Cause	Action
	No songs in the USB device	Transfer the songs to the USB device.
NO AUDIO	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
TRK SKIPPED	The connected USB device contains WMA files that are protected by DRM	Play an audio file not protected by DRM.
PROTECT	All the files in the USB device are protected by DRM	Transfer the songs not protected by DRM to the USB device.
N/A USB	The connected USB device is not supported by this unit	Connect a USB device that is compliant as a Mass Storage Class.
CHK USB	The USB connector or the USB cable is short-circuited	Confirm the USB connector or the USB cable.
CHK USB	The connected USB device consumes more than 500 mA (max. allowable current)	Confirm the USB device.
		Turn the ignition switch OFF and ON.
ERROR-19	Communication failure	Disconnect the USB device, and connect it again.
		Change to a different source. Then, return to the USB.
ERROR-23	USB device is not formatted with FAT16 or FAT32	Format the USB device with FAT16 or FAT32.

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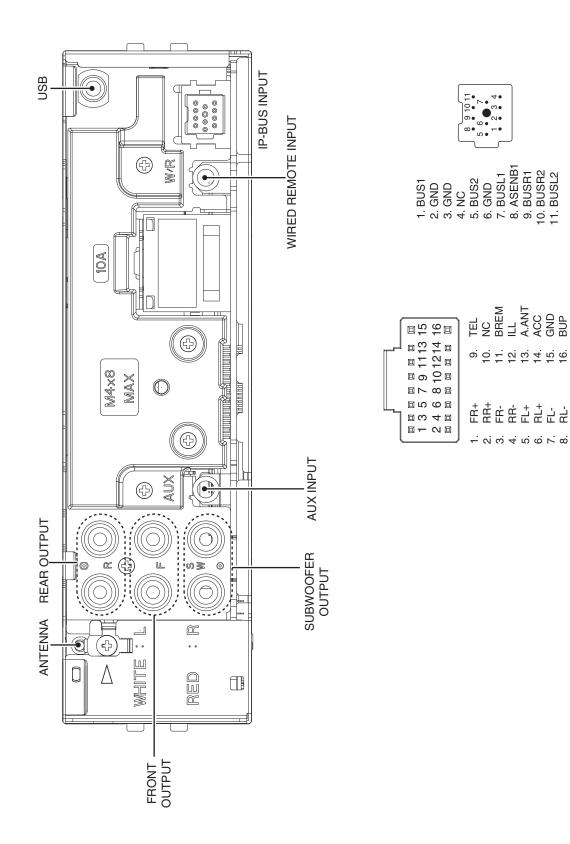
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#### **5.3 CONNECTOR FUNCTION DESCRIPTION**



DEH-P7000UB/XN/EW5

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#### 6. SERVICE MODE

#### 6.1 TEST MODE

#### **Double Key Allocation List**

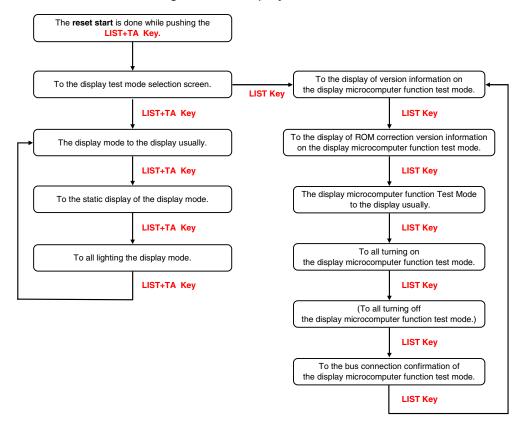
Double Key	Mode Name
S.Rtrv + DISP	CD Test Mode
LIST + TA	Display Test Mode
DISP + BAND/ESC	(Eject Lock)

The mode in ( ) is except test mode.

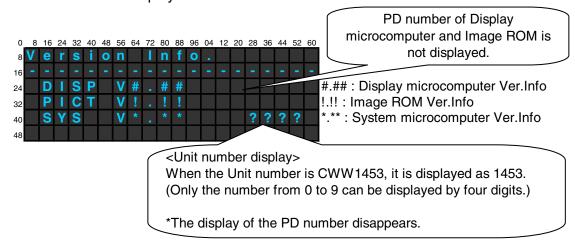
#### 6.2 DISPLAY TEST MODE

#### **Display Test Mode**

Restarted pushing reset while pushing the LIST+TA key then the screen is changed to the display test mode.



Version Information Display



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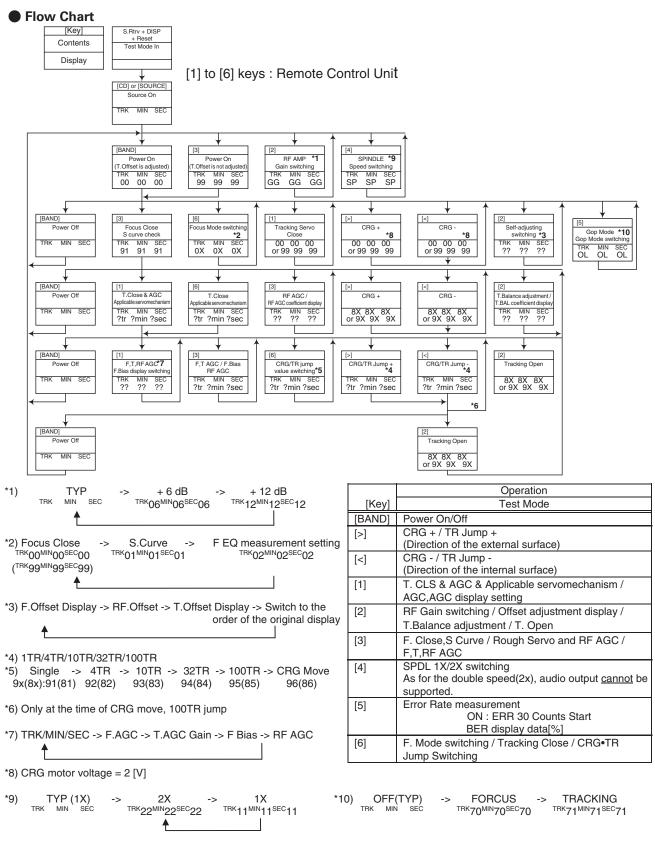
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#### 6.3 CD TEST MODE

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- As for the double speed (2x), audio output cannot be supported
- After the [Eject] key is pressed keys other than the [Eject] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

3

#### Removing the Keyboard Unit (Fig.1, 2)

Remove the Knob Unit.(Fig.1)



Remove the four screws.(Fig.2)

Remove the Cover and then remove the Keyboard Unit.



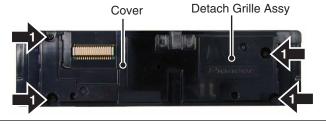


Fig.1

Fig.2

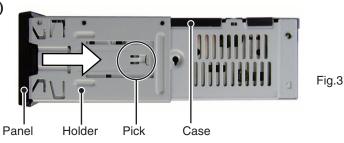
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#### Removing the Holder, Panel and Case (Fig.3)

Take off the pick of left and right and then a Holder slide to the arrow course.

Remove the Panel.

Remove the Case.

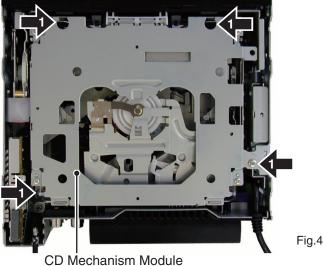


#### Removing the CD Mechanism Module (Fig.4)



Remove the four screws.

Disconnect the cable and then remove the CD Mechanism Module.



Е

#### Removing the Panel Assy(Fig.5, 6, 7)

Disconnect the two cables.(Fig.5)

Follw next

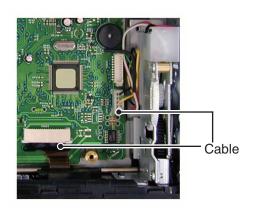


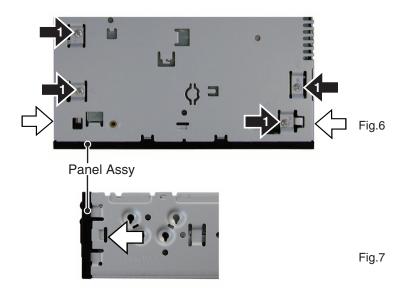
Fig.5

DEH-P7000UB/XN/EW5

A The continuance from the page of before.



Push the place of the arrows and then remove the Panel Assy.(Fig.6, 7)

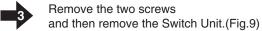


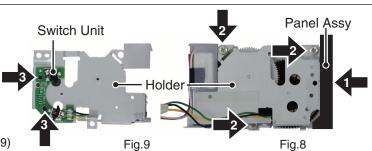


Remove the screw.(Fig.8)

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Remove the three screws and then the Holder.(Fig.8)

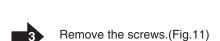




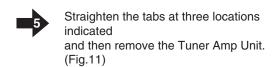
Removing the Tuner Amp Unit(Fig.10, 11)

Remove the screw and then remove the Holder.(Fig.10)

Remove the screw.(Fig.10)



Remove the screw and then remove the Holder.(Fig.11)





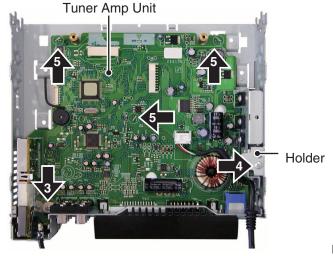


Fig.11

Fig.10

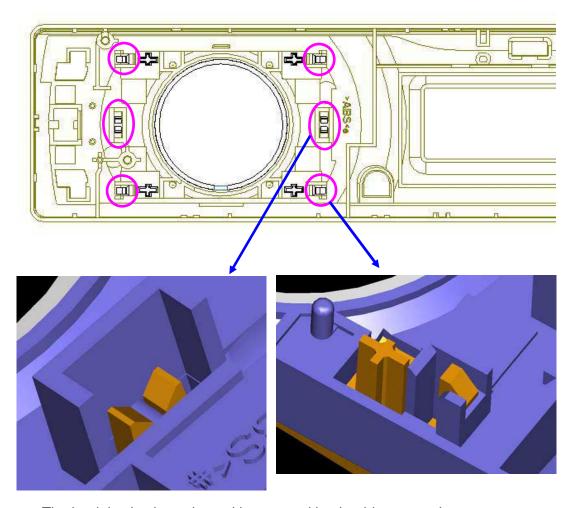
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●How from grille to remove plate button.



①There are six hooks to remove.



The hook in six places in total is removed by the thin one such as tweezers.

\* The hook breaks when forcibly removing.

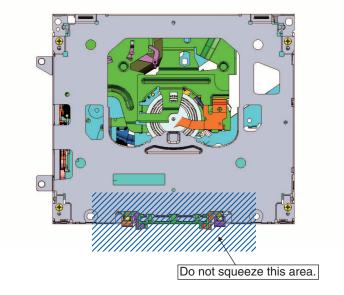
DEH-P7000UB/XN/EW5

#### How to hold the Mechanism Unit

1. Hold the Upper and Lower Frames.

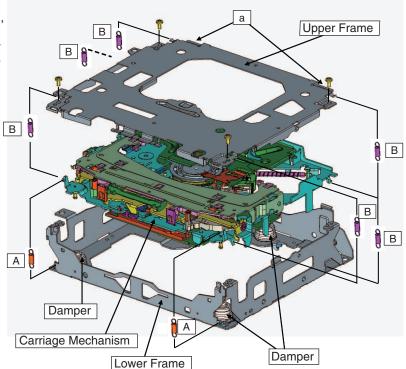
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2. Do not hold the front portion of the Upper Frame, because it is not very solid.



#### Removing the Upper and Lower Frames

- 1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
- 2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
- 3. While lifting the Carriage Mechanism, remove it from the three Dampers.
- Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



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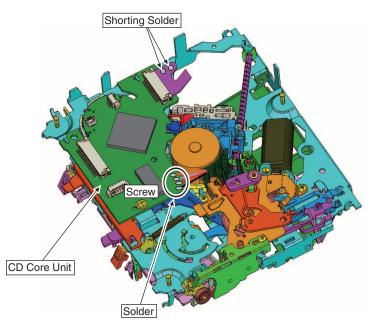
1

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#### How to remove the CD Core Unit

- Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
- 2. Unsolder the four leads, and loosen the Screw.
- 3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

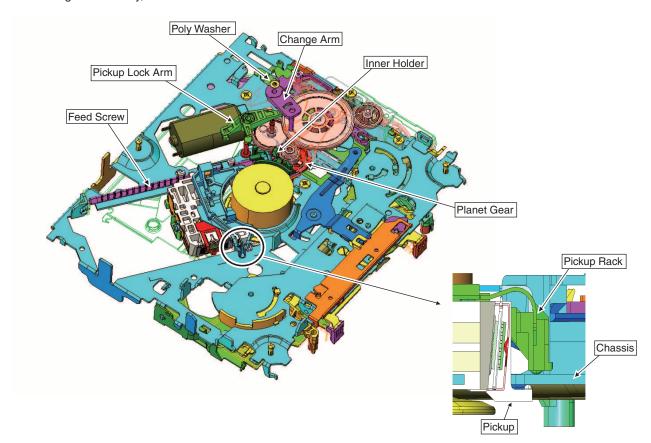


#### How to remove the Pickup Unit

- 1. Make the system in the carriage mechanism mode, and have it clamped.
- 2. Remove the CD Core Unit and remove the leads from the Inner Holder.
- 3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
- 4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



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#### 8. EACH SETTING AND ADJUSTMENT

#### 8.1 CD ADJUSTMENT

- 1) Cautions on adjustments
- In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.
- If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:
- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.
- c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.
- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

#### 2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the 4 and 6 keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

#### Notes:

- a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
- b. If you have pressed the (->) key or (<-) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the singleTR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

#### 8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



#### Note:

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

#### Purpose :

To check that the grating is within an acceptable range when the PU unit is changed.

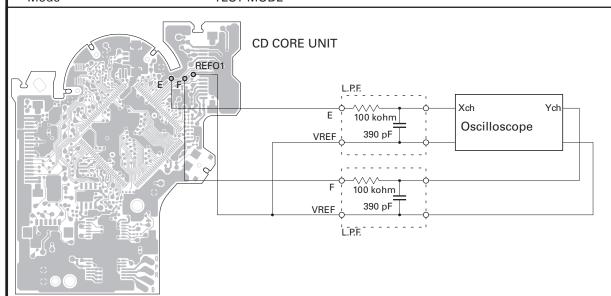
#### Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

#### • Method:

- Measuring Equipment
- Measuring Points
- Disc
- Mode

- Oscilloscope, Two L.P.F.
- E, F, REFO1
- TCD-782
- TEST MODE



#### • Checking Procedure

- 1. In test mode, load the disc and switch the 3 V regulator on.
- 2. Using the -> and <- buttons, move the PU unit to the innermost track.
- 3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75 degrees. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75 degrees try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 degrees then the mechanism should be judged to be at fault.

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

#### Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

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#### **Grating waveform**

Ech -> Xch 20 mV/div, AC Fch -> Ych 20 mV/div, AC

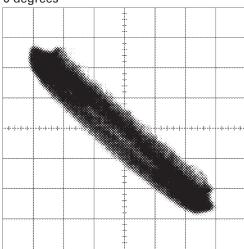
0 degrees

Α

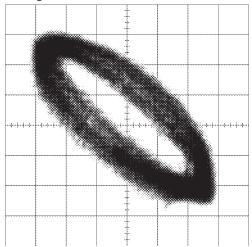
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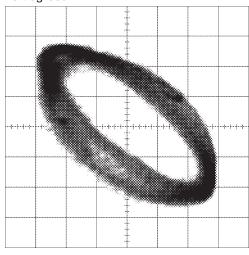
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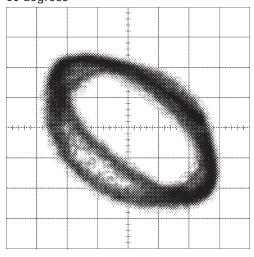
30 degrees



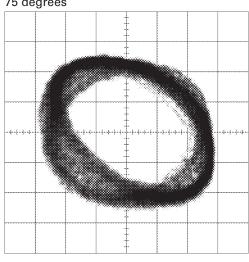
45 degrees



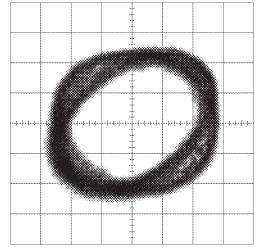
60 degrees



75 degrees



90 degrees



#### 8.3 PCL OUTPUT CONFIRMATION



#### PCL output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the STEST IC601(Pin 86) terminal to H.

The clock signal is output from the PCL1 terminal IC601(Pin 37).

The frequency of the clock signal is 468.8 kHz that is one 32th of the fundamental frequency.

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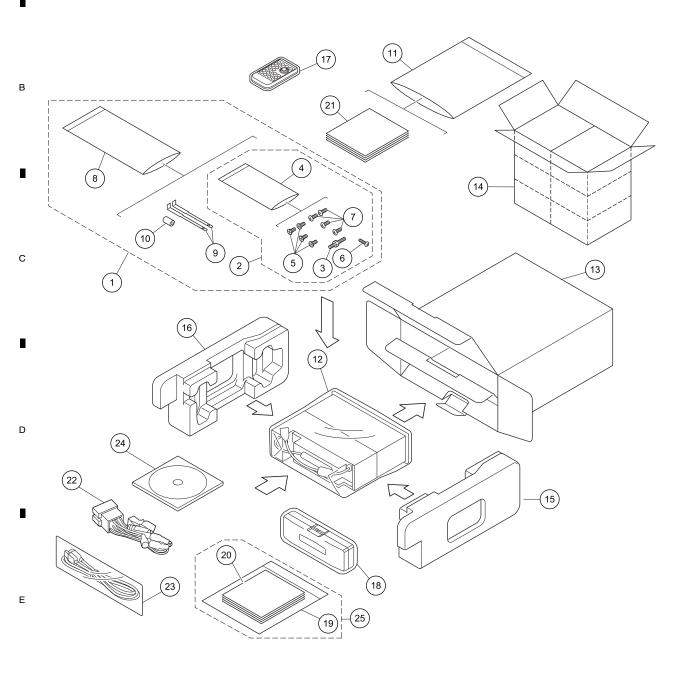
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#### 9. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "\*" are generally unavailable because they are not in our Master Spare Parts List.

- The !\therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to  $\nabla$  mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 9.1 PACKING



#### **■** (1) PACKING SECTION PARTS LIST

	<u>Mark</u>	No.	<b>Description</b>	Part No.	Mark No.	<b>Description</b>	Part No.
	*	1	Accessory Assy	CEA7316	6	Screw	JPZ20P060FTB
		2	Screw Assy	CEA5322	7	Screw	TRZ50P080FTC
		3	Screw	CBA1650	8	Polyethylene Bag	CEG1160
F	*	4	Polyethylene Bag	CEG-127	9	Handle	CND3707
		5	Screw	CRZ50P090FTC	10	Bush	CNV3930

		5	6 7
Mark 1	No.	<u>Description</u>	Part No.
	11	Polyethylene Bag	CEG1116
	12	Polyethylene Bag	CEG1227
	13	Unit Box	CHG6391
	14	Contain Box	CHL6391
	15	Protector	CHP3502
	16	Protector	CHP3503
	17	Remote Control Unit	CXC9113
	18	Case Assy	QXA3049
*	19	Polyethylene Bag	CEG1250
	20	Quick Start Guide	See Language tabel (2)
2	21-1	Installation Manual	CRD4253
* 2	21-2	Caution Card	CRP1335
* 2	21-3	Caution Card	CRP1363
* 2	21-4	Caution Card	CRP1366
* 2	21-5	Warranty Card	CRY1265
* 2	21-6	Passport	CRY1268
	22	Cord Assy	XDP7003
	23	Cord Assy	CDP1040
	24	CD-ROM (Operation Manual)	CPJ1214
	25	Owner's Manual Assy	CXC9690

#### (2) Language of Quick Start Guide

Mark	Part No.	Language
*	CRB2601	English
*	CRB2602	Spanish
*	CRB2603	German
*	CRB2604	French
*	CRB2605	Italian
*	CRB2606	Dutch
*	CRB2607	Russian

#### (3) CONTENTS OF CD-ROM (Operation Manual), CPJ1214

Mark	Part No.	Language
*	CRB2562	English
*	CRB2563	Spanish
*	CRB2564	German
*	CRB2565	French
*	CRB2566	Italian
*	CRB2567	Dutch
*	CRB2568	Russian

All operation manuals are supplied in PDF files by the CD-ROM. No printed papers are available.

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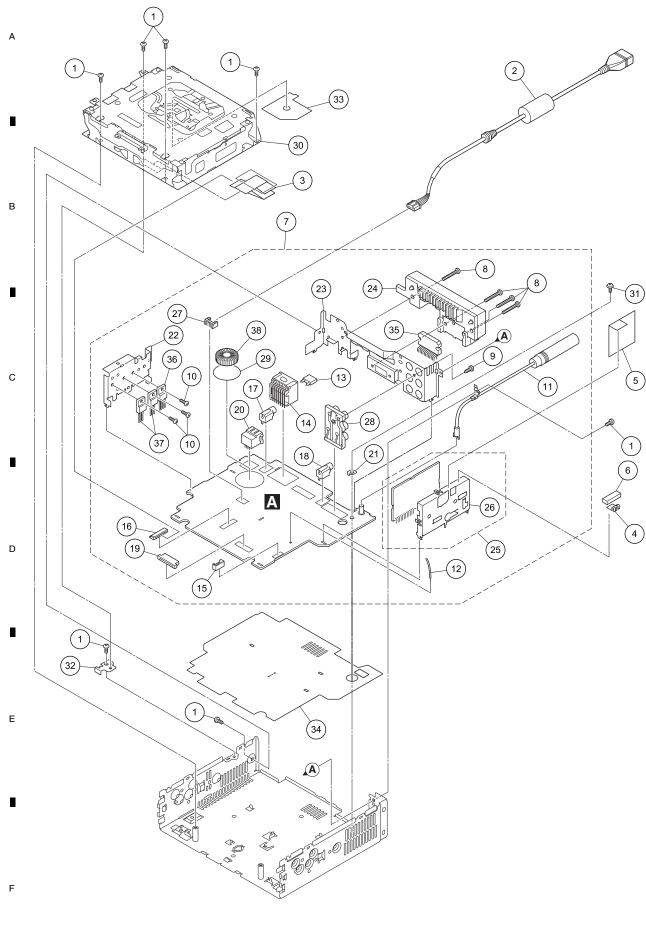
Mark No.	<u>Description</u>	<u>Part No.</u>
1	Case	CNB3466
2	Holder	CND3598
3		
4	Panel	CNS9319
5	Detach Grille Assy	CXC8928
6	Screw	BPZ20P080FTB
7	Button(SRC, BAND)	CAI1661
8	Button(DISP, S.Rtrv, RDM, MU	,
9	Button(Reset)	CAI1676
10	Cover	CNS9294
11	Lighting Conductor	CNV9883
12	0 0	CKS5545
13	Connector(CN1801)	CKS5662
14	Holder	CND4267
15	Double Side Tape	CNM8673
16	Holder	CNV9886
17	OEL Unit	MXS8260
18	Spacer	CNN2403
19	Grille Unit	CXC8872
20	Knob Unit	CXC8883
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
21	Spring	XBL7005
22	Button Unit(TA, LIST, OPEN)	CXC8935
23	Remote Control Unit	CXC9113
24	Cover	CZN5357
25	IC(IC1931)	GP1UX31RK
26	Cord Assy	XDP7003
27	Cap	CKX-003
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# 9.3 EXTERIOR(2)



DEH-P7000UB/XN/EW5

33 Insulator XNM7106

34 Insulator XNM7114

35 IC(IC351) PAL007C

36 IC(IC911) NJM2388F84

37 Transistor(Q751,Q901) 2SD2396

38 Choke Coil(L981) CTH1280

DEH-P7000UB/XN/EW5

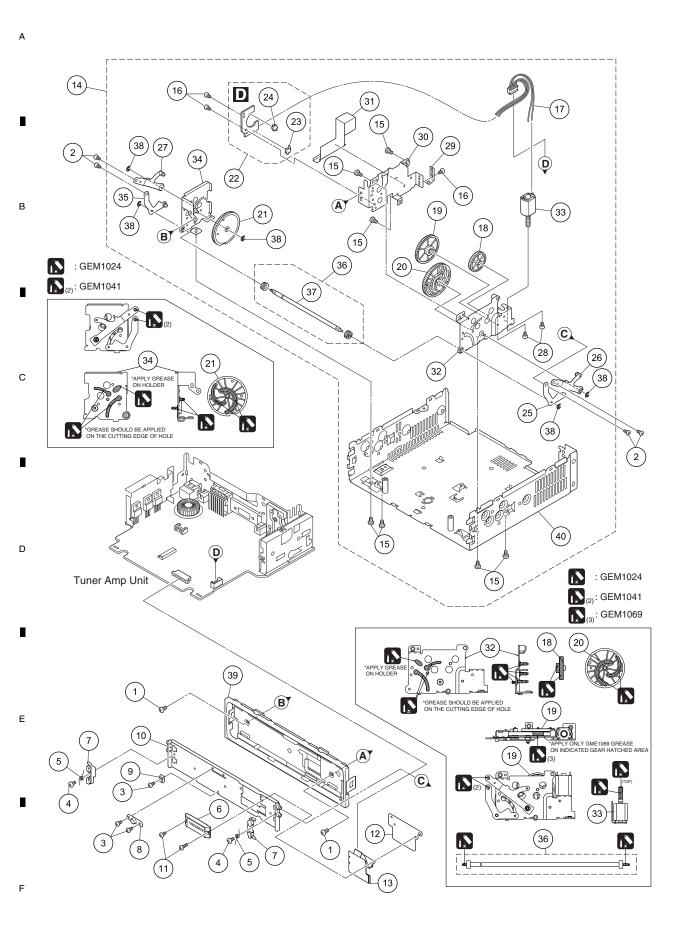
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### 9.4 DRIVE UNIT



DEH-P7000UB/XN/EW5

27 Arm Unit CXC6624 28 Screw JFZ20P020FTC 29 Spring XBL7003 XNC7017 30 Holder

XNM7119

CXC8855

32 Holder Unit XXA7399 33 Motor Unit XXA7400 Holder Unit XXA7401 34 35 Arm Unit XXA7403 36 Gear Unit XXA7424 37 Shaft XLA7001 38 Washer YE15FTC Panel Unit CXC8925 39

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Insulator

Chassis Unit

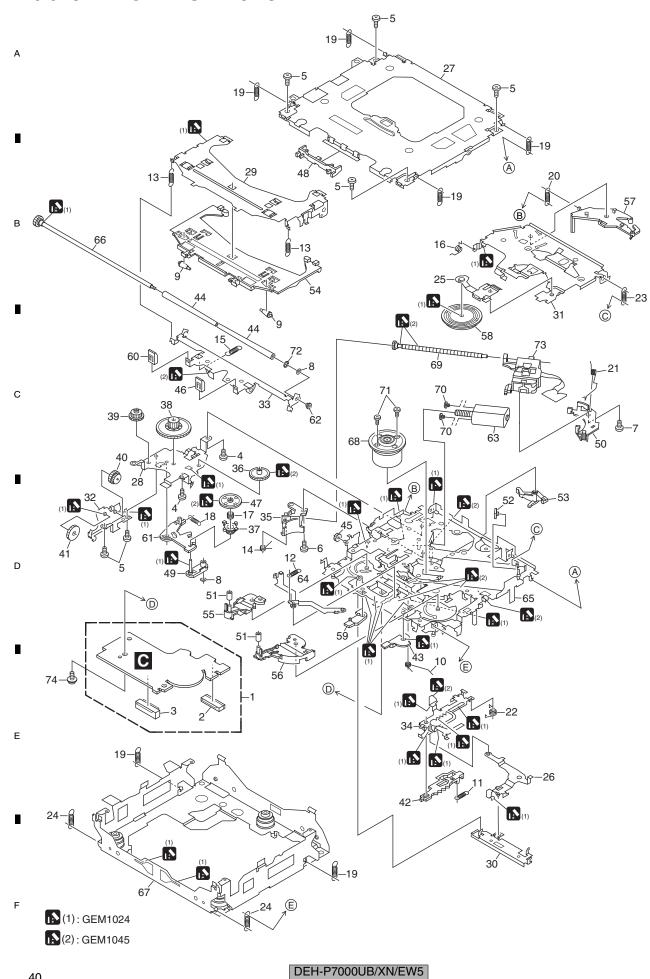
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### 9.5 CD MECHANISM MODULE



CD MECHANISM MODULE SECTION PARTS LIST

CD MEC	HANISM MODULE S	SECTION PARTS LIST				
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	CD Core Unit(S10.5COM	/IP2-iPod) CWX3526	50	Rack	CNV8342	
2	Connector(CN101)	CKS4182				
3	Connector(CN701)	CKS4186	51	Roller	CNV8343	,
4	Screw	BMZ20P025FTC	52	Holder	CNV8344	
5	Screw	BSZ20P040FTC	53	Arm	CNV8345	
_			54	Guide	CNV9498	
6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348	
7	Screw(M2 x 4)	CBA1835				
8	Washer	CBF1038	56	Arm	CNV8349	
9	Roller	CNV9499	57	Arm	CNV8350	
10	Spring	CBH2609	58	Clamper	CNV8365	
	-1- 3		59	Arm	CNV8386	
11	Spring	CBH2612	60	Guide	CNV8396	1
12	Spring	CBH2614				
13	Spring	CBH2616	61	Arm	CNV8413	
14	Spring	CBH2617	62	Collar	CNV8938	
15	Spring	CBH2620	63	Motor Unit(M2)	CXC4026	
	1 0		64	Arm Unit	CXC4027	
16	Spring	CBH2855	65	Chassis Unit	CXC4028	
17	Spring	CBH2937				
18	Spring	CBH2735	66	Gear Unit	CXC4029	
19	Spring	CBH2854	67	Frame Unit	CXC4031	
20	Spring	CBH2642	68	Motor Unit(M1)	CXC7134	
			69	Screw Unit	CXC6359	(
21	Spring	CBH2856	70	Screw	JFZ20P020FTC	
22	Spring	CBH2857				
23	Spring	CBH2860	71	Screw	JGZ17P022FTC	
24	Spring	CBH2861	72	Washer	YE20FTC	
25	Spring	CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942	l
			74	Screw	IMS26P030FTC	
26	Arm	CND1909				
27	Frame	CND2582				
28	Bracket	CND2583				
29	Arm	CND3831				[
30	Lever	CND2585				
31	Arm	CND2586				
32	Bracket	CND2587				
33	Arm	CND2588				ĺ
34	Lever	CND2589				,
35	Holder	CNV7201				
	•	0.11/				
36	Gear	CNV7207				
37	Gear	CNV7208				_
38	Gear	CNV7209				ŀ
39	Gear	CNV7210				
40	Gear	CNV7211				
41	Gear	CNV7212				
42	Rack	CNV7212				
42	Arm	CNV7214 CNV7216				
43	Roller	CNV7218				
44	Gear	CNV7218 CNV7219				
73		0				
46	Guide	CNV7361				
47	Gear	CNV7595				1
48	Guide	CNV7799				
49	Arm	CNV7805				
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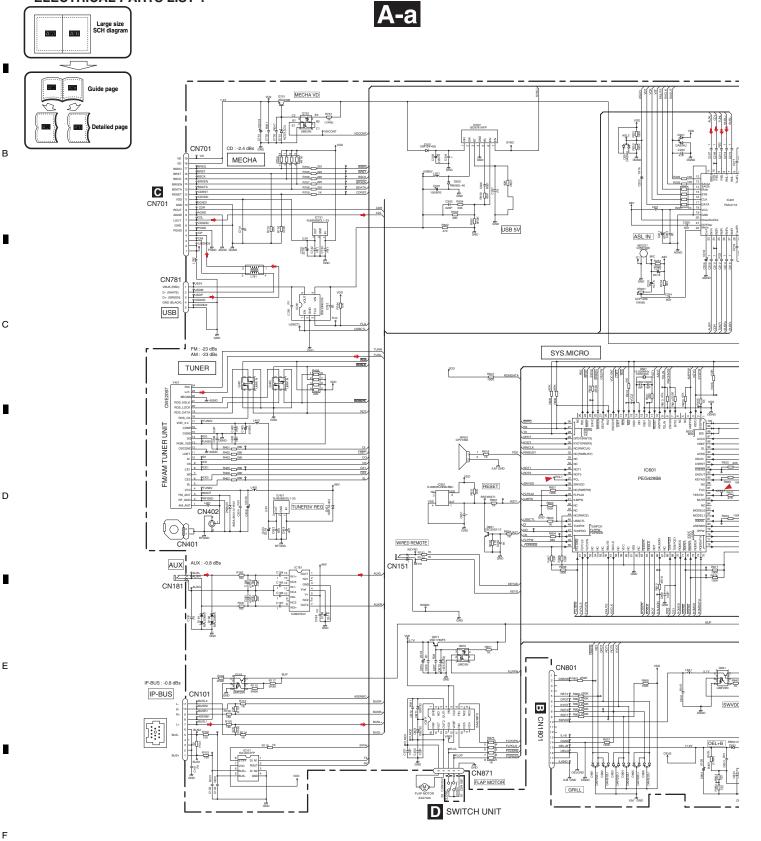
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## 10. SCHEMATIC DIAGRAM

### 10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

A Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".





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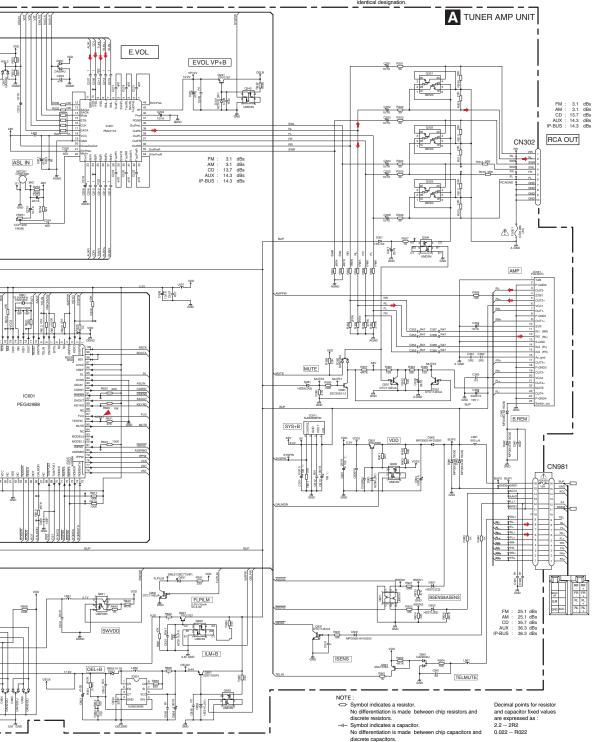
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A-b

The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



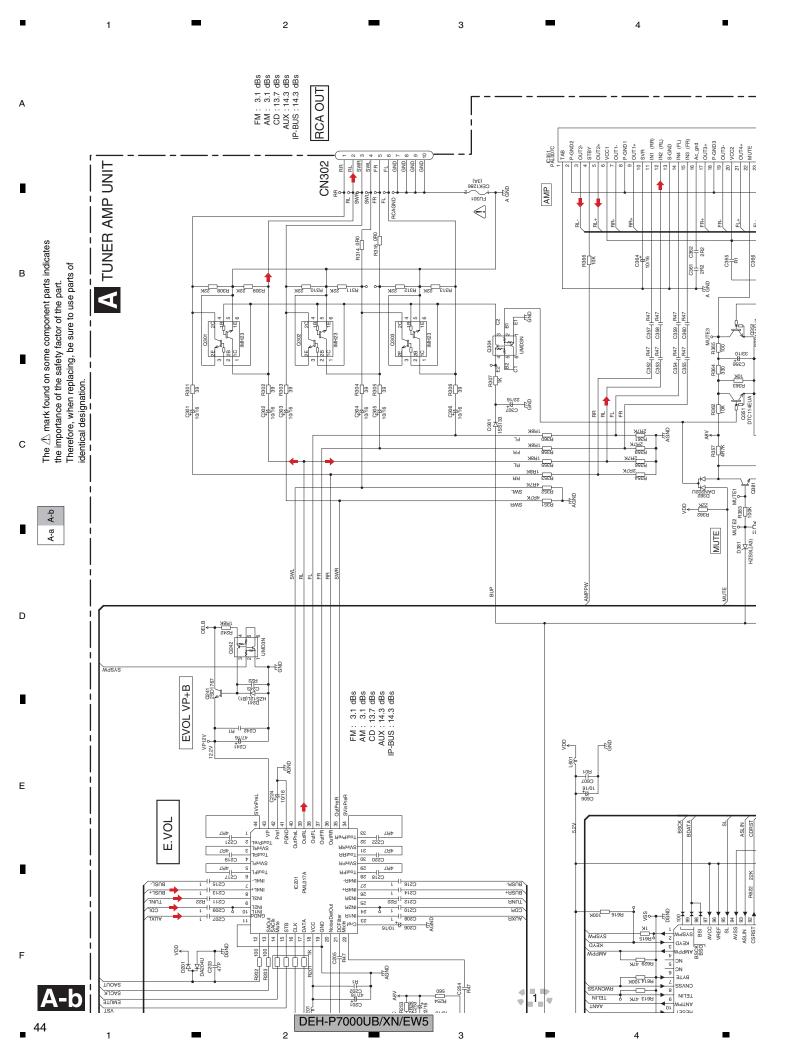
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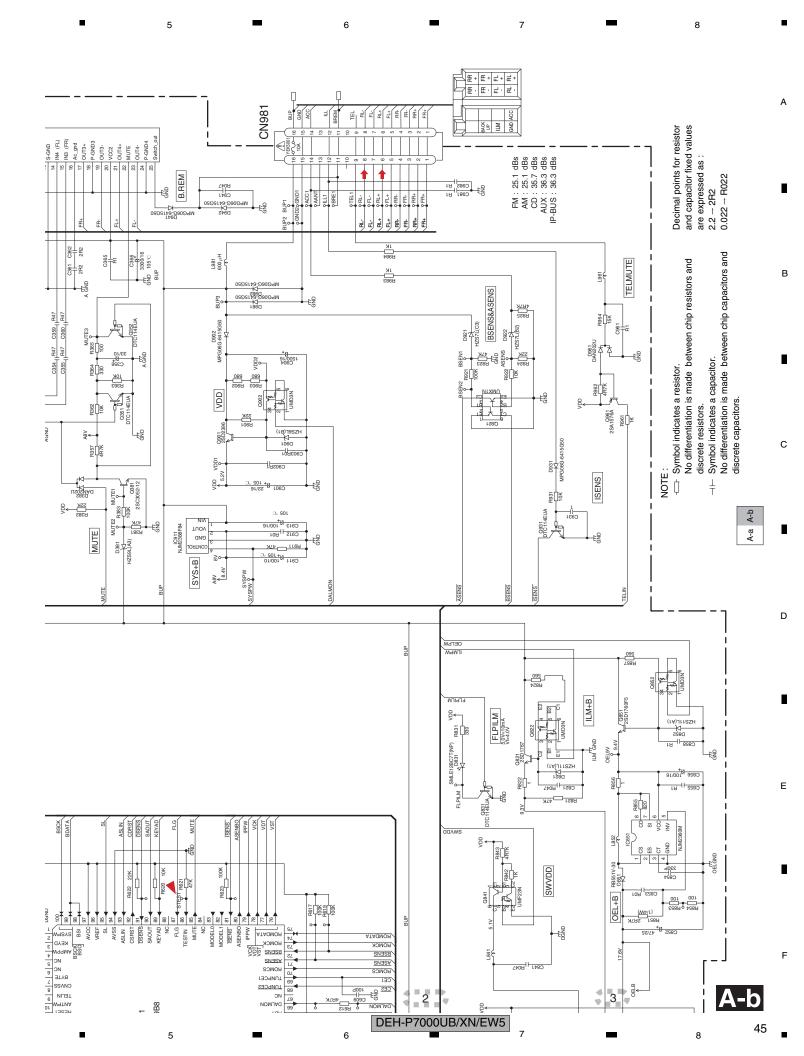
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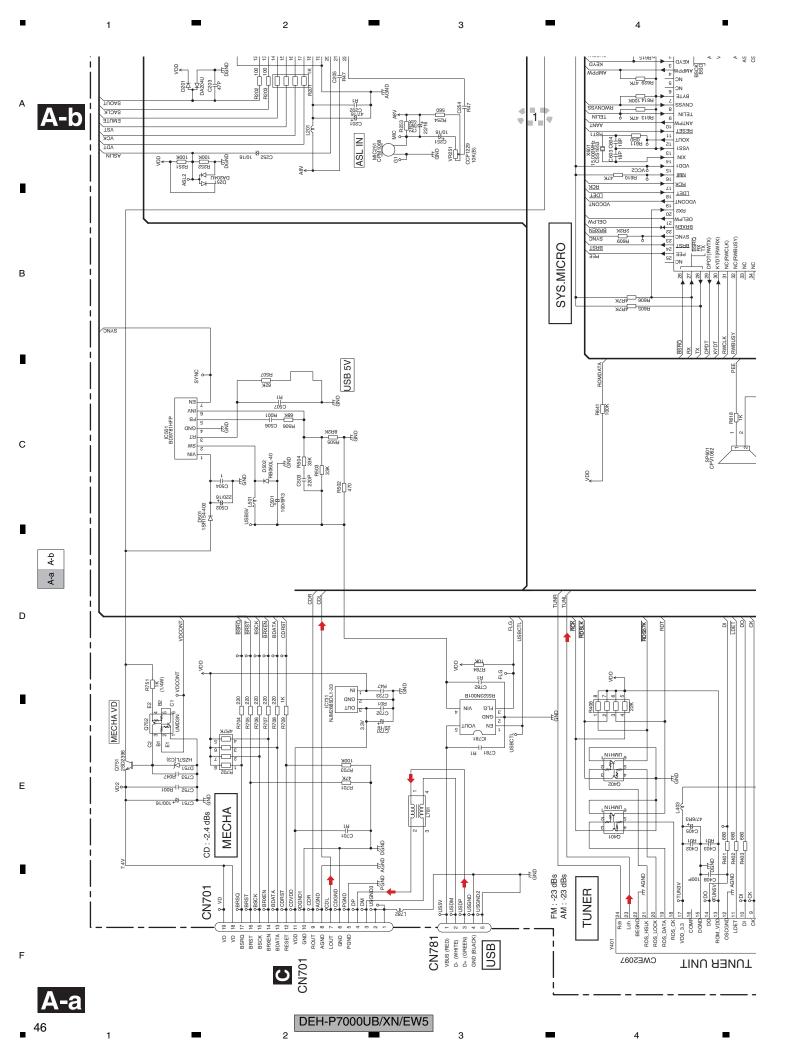
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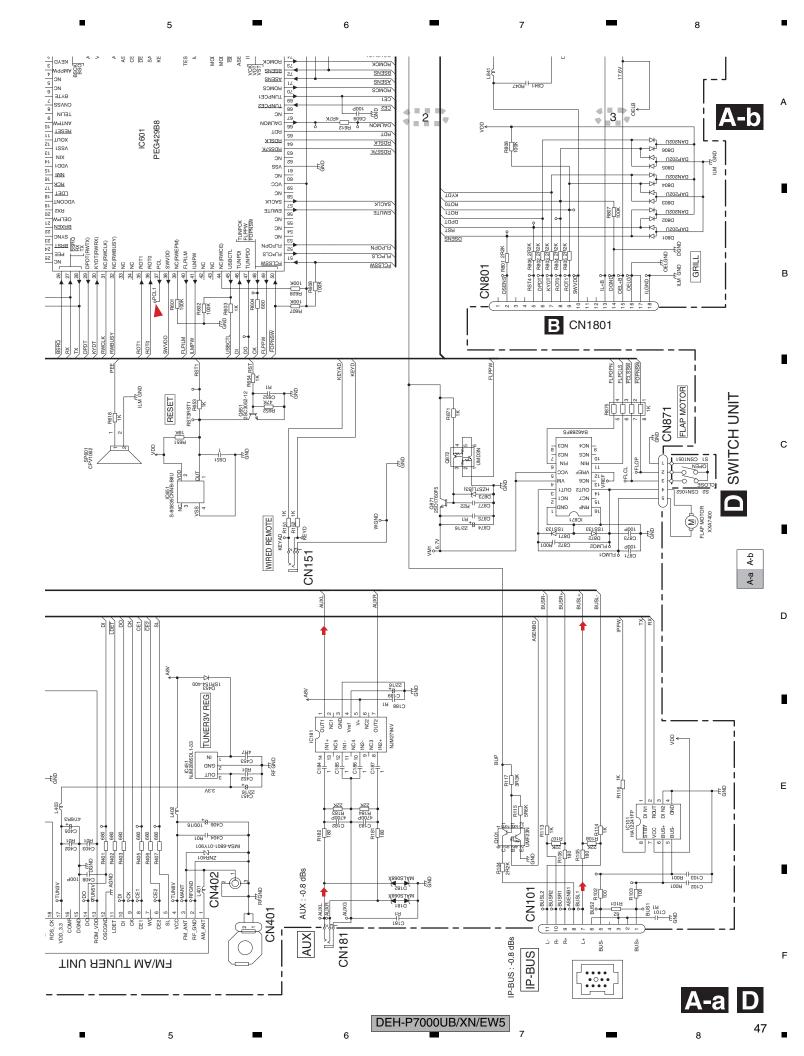
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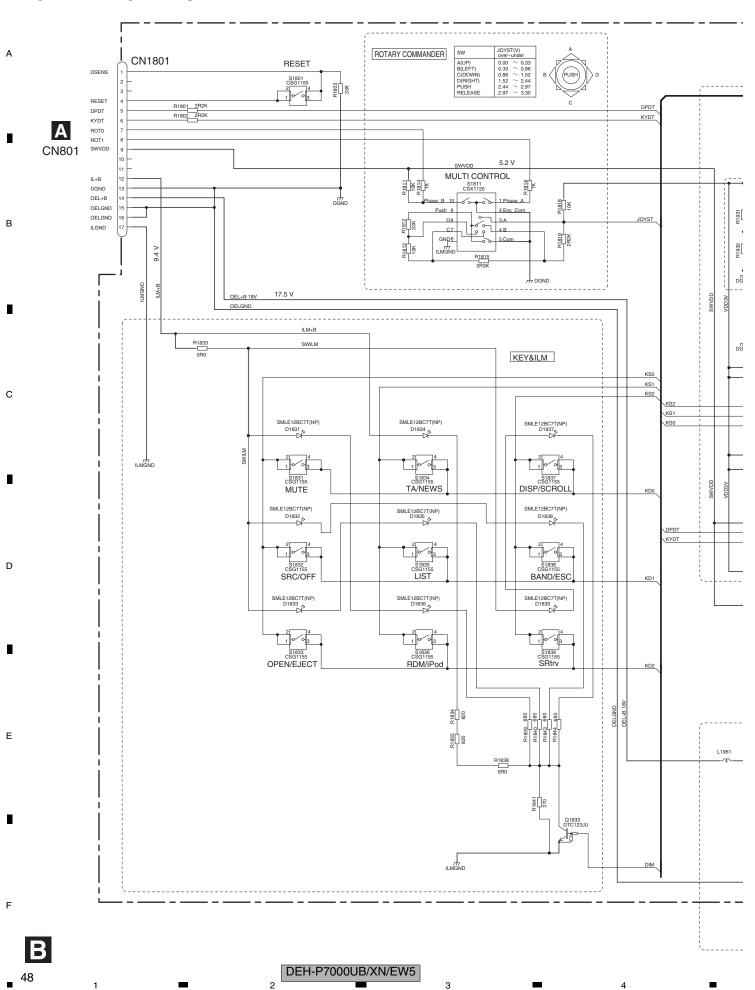


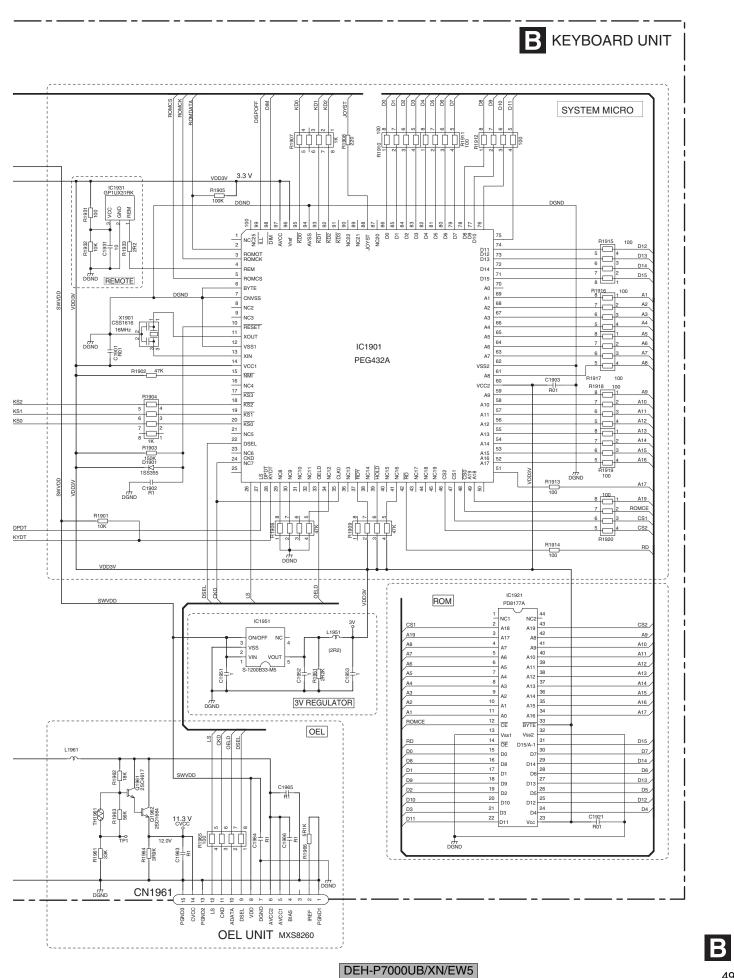






### **10.2 KEYBOARD UNIT**





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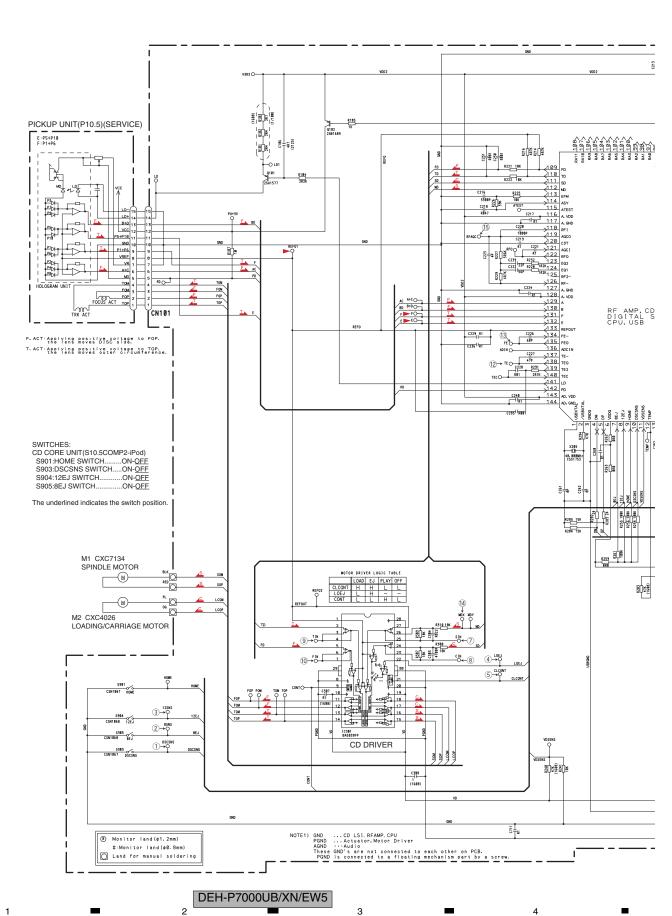
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### 10.3 CD MECHANISM MODULE(GUIDE PAGE)





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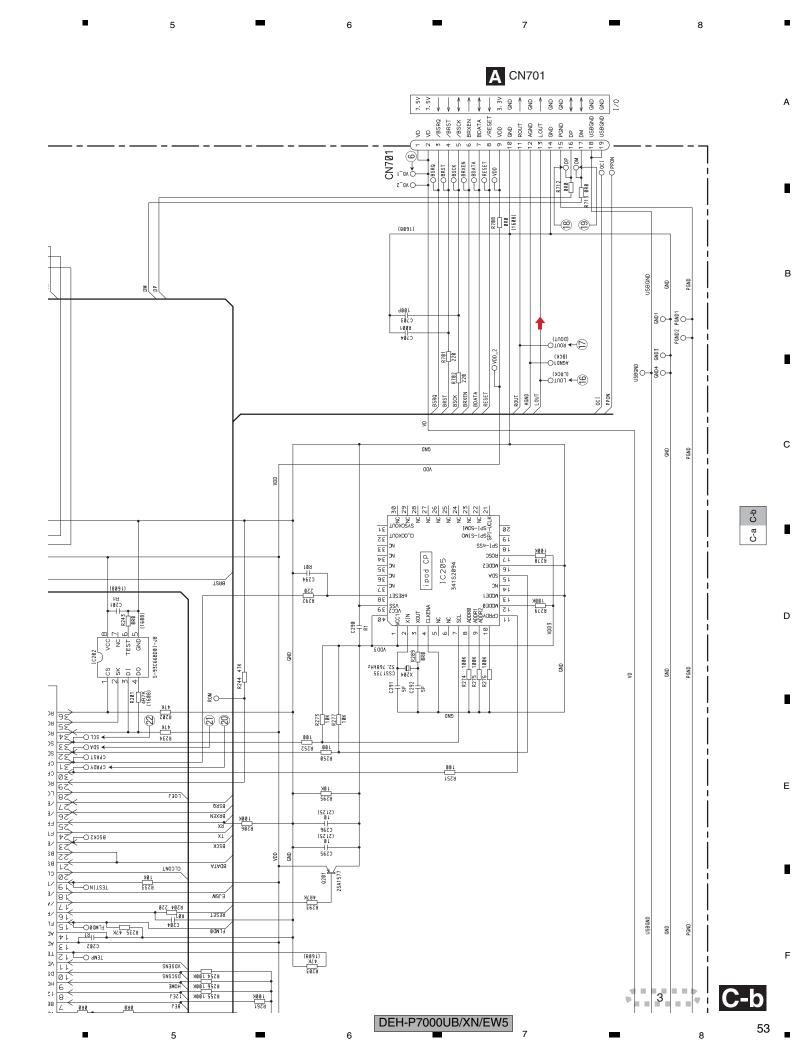
51

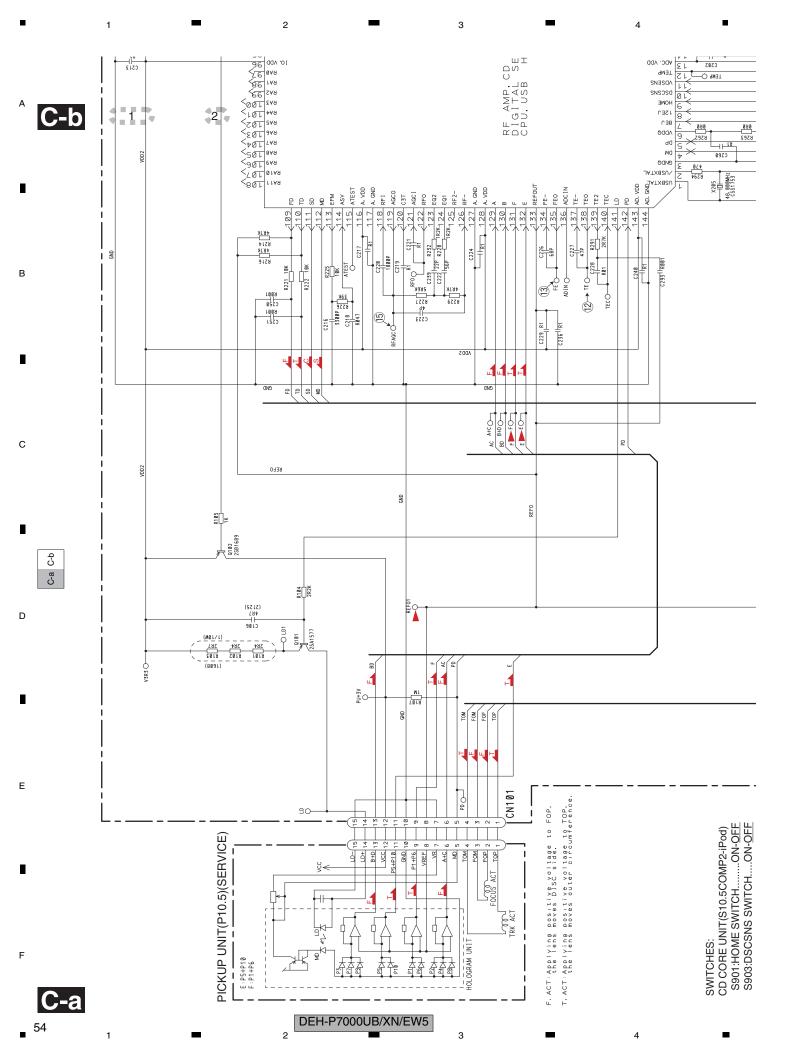
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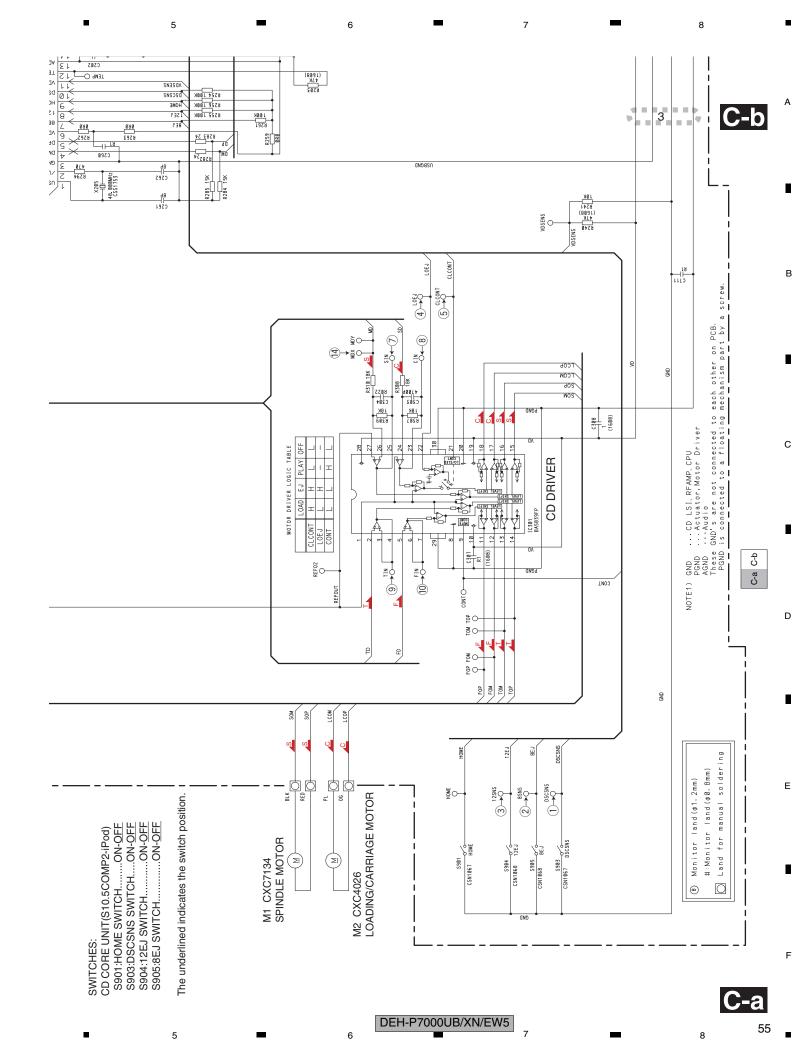
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CD CORE UNIT(S10.5COMP2-iPod) -О иск XI O Огвскок O VDD2 В WCK ž REBE AGND BRB (1608) PPON CD3VON 20 SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE AAGND 47K VDD2 С  $\stackrel{\circ}{\rightarrow}$ 8E62 2 2 2 3 11111 0 — О Г ВСК C-b TU00 ()-R238 8R8 O PUEN (1608) CCC | C212 C289+N22/6R3 -OKEOK C218 R1 \$21 ¥ OLOCK OHOLD OMIRR (2125) 4R7 C286 1 by GND TEST 2 X Z Z Z /RCS C33M SVMON3 SVMONZ R281 . BOWC2 BOMCK ATAGMOЯ ЗСГ Vds ← Ads CD DECODER, MP3&WMA DECODER SERVO/DATA.PROCESSOR HOST CONTROLLER СРЯЗТО СРRDУ KOM C30 BZBØ (\CDZBØ) /BRXEN (DSPMUTE) FR×D D×TF \$201 2A8
\$20 **BZCK** 820 (2CF) BSI (SDA) PE5611B СГСОИТ 10201 VIESTIN WSU3/ \ADENA TBS BR FLMD0 8535 47K FLMD80 1 5 C202 1 3 ADC. GND RJ CS13 ADC. VDD **NDSENS** DECENE HOME 1 1 SE n **∪∃8** 080 DEH-P7000UB/XN/EW5

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### 10.4 WAVEFORMS

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#### CD CORE UNIT Note: 1. The encircled numbers denote measuring points in the circuit diagram. 2. Reference voltage REFO1(1.65 V) ①DSCSNS 500 ms/div ①DSCSNS 5 V/div 500 ms/div ①DSCSNS 5 V/div 5 V/div 500 ms/div **28SNS** 5 V/div **⑤CLCONT** 5 V/div **28SNS** 5 V/div **312SNS** 5 V/div **4**LOEJ 5 V/div **312SNS** 5 V/div **4**LOEJ 5 V/div ⑥VD 10 V/div **4LOEJ** 5 V/div 12 cm CD Loading operation 12 cm CD Loading operation 8 cm CD Loading operation Ref.: Ref.: Ref.: GND GND GND Mode: Mode: Mode: Normal Normal Normal (7)SIN 1 V/div 10FIN 200 mV/div 500 ms/div (12)TE 500 mV/div 200 ms/div 1 s/div ®CIN 500 mV/div 11 RFOK(MONI\_3) 2 V/div (13) FE 500 mV/div 9TIN 1 V/div **7SIN** 2 V/div 12 cm CD-DA Source On setup operation 12 cm CD-DA setup operation after loading Source On setup operation Ref.: Ref.: Ref.: REFO **REFO** REFO Mode: Mode: Mode: Normal Normal Normal 13FE 500 mV/div 20 ms/div **4MDX** 2 V/div 200 ms/div **MDX** 2 V/div 5 µs/div **10FIN** 500 mV/div **7SIN** 500 mV/div **⑦SIN** 500 mV/div 500 mV/div 12TE 500 mV/div 9TIN CD-DA Play operation Spindle waveform during play operation Spindle waveform during play operation (Wider) Ref.: Ref.: Ref.: REFO REFO **REFO** Mode: Mode: Mode: Normal Normal Normal **10FIN** 500 mV/div 2 ms/div ®RFAGC 500 mV/div 200 ms/div 12)TE 1 V/div 500 µs/div 500 mV/div **®RFAGC** 500 mV/div 500 mV/div (13) FE 12TE 9TIN 500 mV/div Focus Search waveform Track Open waveform 1 Track Jump waveform Ref.: Ref.: Ref.: REFO REFO REFO Mode: Mode: Mode: **TEST TEST TEST**

3

Е

®RFAGC **®RFAGC ®RFAGC** 1 V/div 500 µs/div 1 V/div 500 µs/div 1 V/div 2 ms/div **12**TE 12TE 12TE 500 mV/div 500 mV/div 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 4 Tracks Jump waveform 10 Tracks Jump waveform 32 Tracks Jump waveform Ref.: Ref.: Ref.: REFO REFO REFO Mode: TEST Mode: Mode: TEST TEST **®RFAGC** 200 ms/div **16LOUT** 200 µs/div **①DSCSNS** 5 V/div 500 ms/div 1 V/div 1 V/div 12TE 1 V/div **®ROUT** 1 V/div **28SNS** 5 V/div ®CIN 1 V/div **312SNS** 5 V/div **7SIN** 2 V/div **4LOEJ** 5 V/div Search operation(Outter to Inner) Analog audio waveform 12 cm CD Eject operation Ref.: Ref.: Ref.: REFO AGND GND Mode: Mode: Mode: Normal Normal Normal **1)DSCSNS** 5 V/div 500 ms/div **①DSCSNS** 5 V/div 500 ms/div **®RFAGC** 1 V/div 500 µs/div **5CLCONT** 5 V/div **28SNS** 5 V/div 9TIN 1 V/div 5 V/div **312SNS 4LOEJ** 5 V/div 12)TE 1 V/div **4LOEJ** 5 V/div **10FIN** 1 V/div 12 cm CD Eject operation 8 cm CD Eject operation Black dot(800 µm) during play Ref.: Ref.: Ref.: **GND** GND **REFO** Mode: Mode: Mode: Normal Normal Normal, 2 V/div **18DP** 1 V/div 50 ns/div ®DP 2 V/div 50 ms/div **18DP** 50 ms/div **19**DM 19 DM 19 DM 1 V/div 2 V/div 2 V/div **USB Play** CD Play with USB(iPod) device connecting. USB device inserting to USB connector.

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®DP 2 V/div 50 ms/div @CPRDY 2 V/div 10 s/div @CPRDY 2 V/div 9**DM** ②SDA ②SDA 2 V/div 2 V/div 2 V/div **2**SCL **2**SCL 2 V/div 2 V/div ACC OFF with USB(iPod) device connecting. iPod Authentication Operation iPod Authentication Operation(zoom until 2 s) В С Е

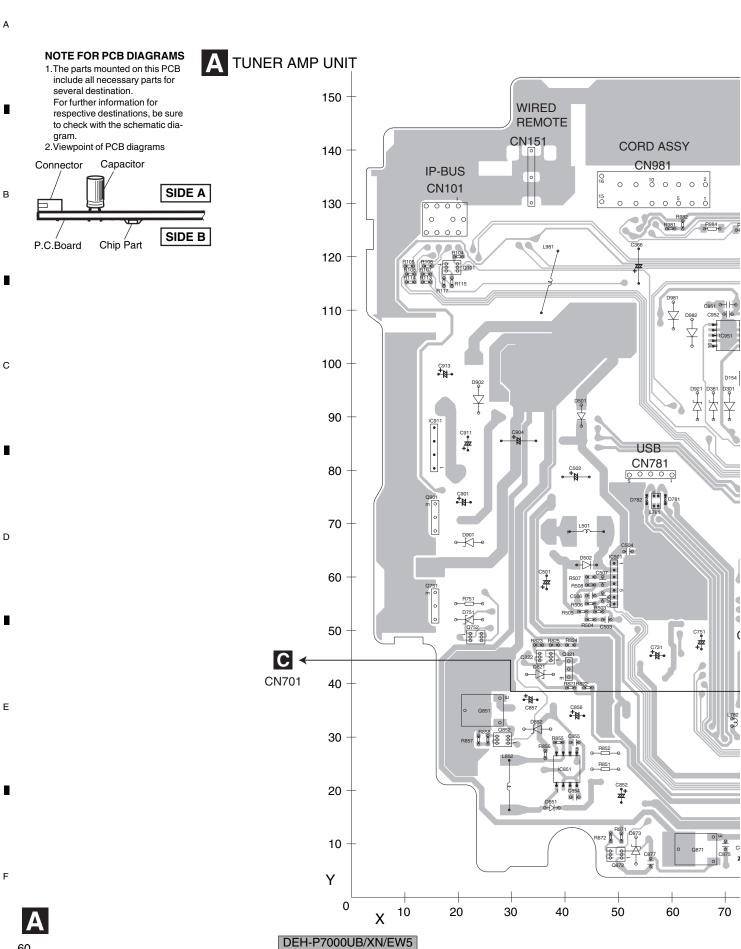
DEH-P7000UB/XN/EW5

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## 11. PCB CONNECTION DIAGRAM

### 11.1 TUNER AMP UNIT

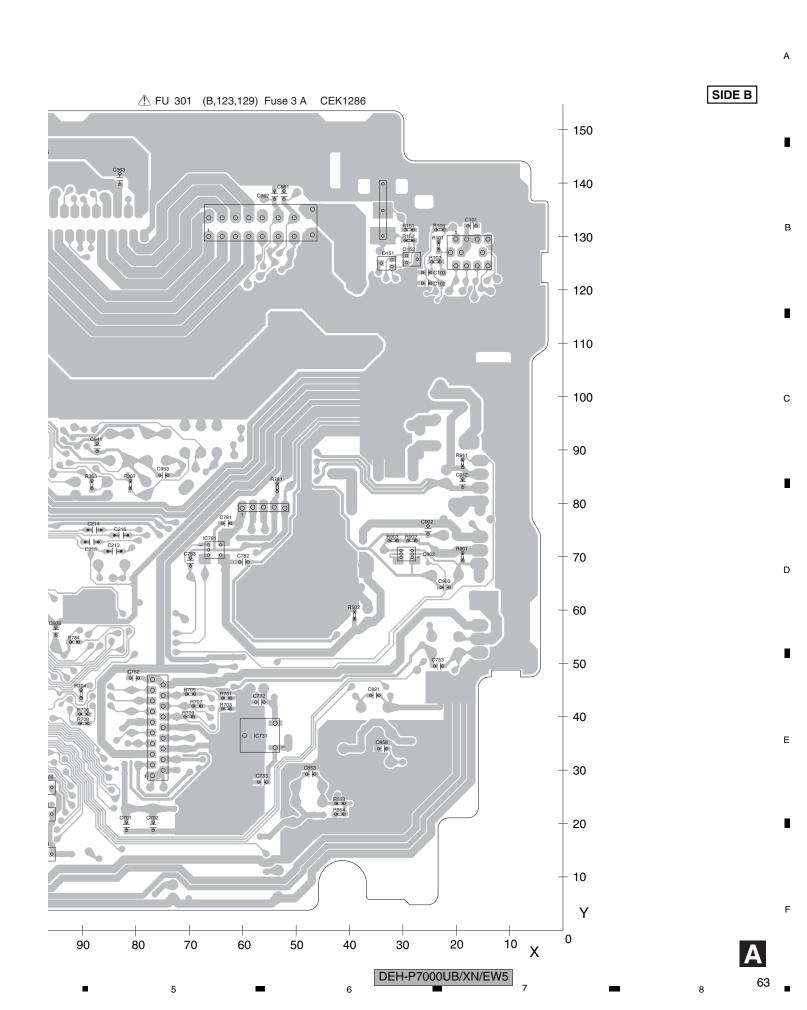


SIDE A **AUX** CN181 SSY RCA 000000000000 0 0 0 0 FM/AM TUNER UNIT C306 C406 C253 CN152 C189 C241 C451 CN601 C751 CN701 CN871 → D L841 (M) FLAP MOTOR CN801 2 10 18 0 0 0 0 0 0 0 0 В CN1801 80 g 170 60 70 90 100 110 120 130 140 150 160 DEH-P7000UB/XN/EW5

A TUNER AMP UNIT

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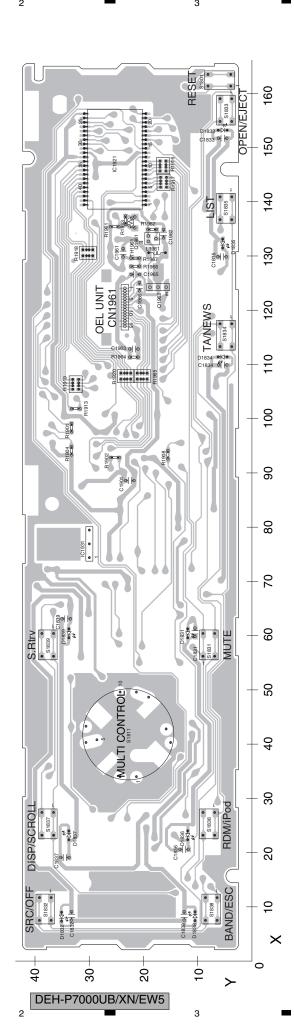
### 11.2 KEYBOARD UNIT

**B** KEYBOARD UNIT

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SIDE A



B

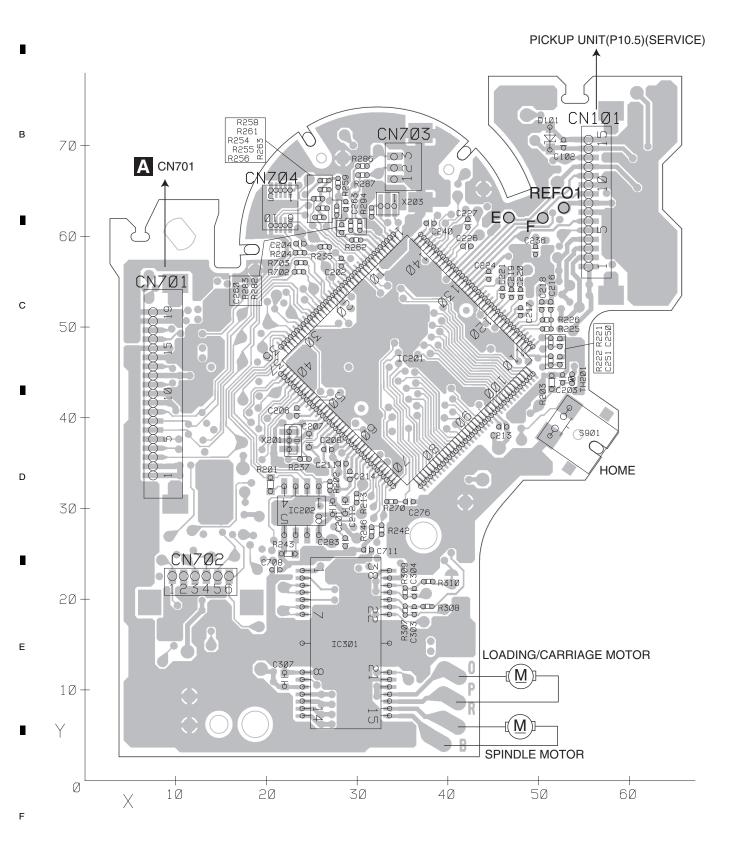
-20

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### 11.3 CD CORE UNIT(S10.5COMP2-iPod)

CD CORE UNIT(S10.5COMP2-iPod)

SIDE A

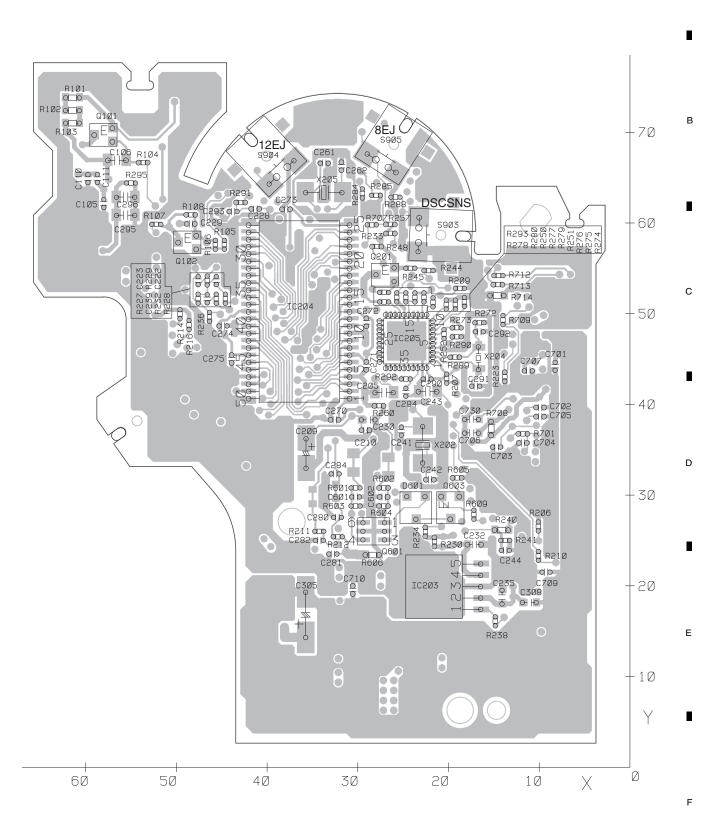


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C CD CORE UNIT(S10.5COMP2-iPod)

SIDE B



C

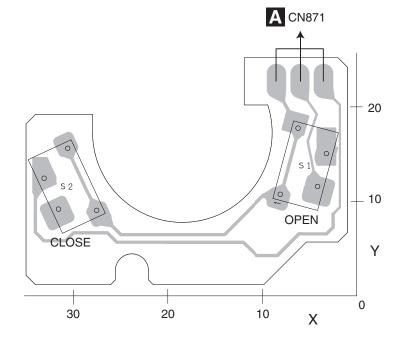
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# 11.4 SWITCH UNIT

**D** SWITCH UNIT



D

DEH-P7000UB/XN/EW5

### 12. ELECTRICAL PARTS LIST

### *NOTE*:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$ 

Chip Capacitor (except for CQS.....)

*CKS....., CCS....., CSZS.....* 

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

Unit Nu	uit Symbol and No. mber: CWN3147 me : Tuner Amp mber:	<u>Part No.</u> O Unit	Cir Q 304 Q 351 Q 352 Q 381 Q 401	(A,90,89) Transistor (A,98,85) Chip Transistor (A,98,81) Chip Transistor (A,91,100) Transistor (A,156,97) Transistor	Part No. UMD3N DTC114EUA DTC114EUA 2SC3052-12 UMH1N	I
Unit Na	me : Keyboard	Unit	Q 402	(A,156,94) Transistor	UMH1N	
	mber: CWX3526		Q 651	(A,138,37) Transistor	2SC3052-12	(
Onit Nu			Q 751	(A,15,55) Transistor	2SD2396	
Unit Na	me : CD Core U	nit	Q 752 Q 821	(A,23,49) Transistor (A,43,43) Transistor	UMD3N 2SD1767	
(S10.5C	OMP2-iPod)		Q 021	(A,40,40) Halisistol	2301707	
			Q 822	(A,36,45) Transistor	UMD3N	_
Unit Nu	mber: CWS1389		Q 831	(A,85,15) Chip Transistor	DTC114EUA	
Unit Na	me : Switch Un	it	Q 841	(A,103,26) Transistor	UMF23N	
Omit ital	ilic i owiton on	•	Q 851 Q 852	(A,23,35) Transistor (A,28,30) Transistor	2SD1760F5 UMD3N	
			Q 032	(A,20,30) Halisistol	OWIDON	
			Q 871	(A,63,9) Transistor	2SD1760F5	
$\Delta$			Q 872	(A,50,8) Transistor	UMD3N	
Unit Nu	mber: CWN3147		Q 901	(A,15,71) Transistor	2SD2396	L
			Q 902	(B,29,71) Transistor	UMD3N	
Unit Na	me : Tuner Amp	Unit	Q 921	(A,79,65) Transistor	UMX1N	
			Q 931	(B,111,63) Chip Transistor	DTC114EUA	
<u>MISCELL</u>	<u>ANEOUS</u>		Q 961	(A,89,105) Transistor	2SA1576A	
	/ · · · · · · · · · · · · · · · · · · ·		D 181	(A,122,123) Diode	MALS068X	
IC 101	(A,90,62) IC	HA12241FP	D 182	(A,122,125) Diode (A,122,125) Diode	MALS068X	
IC 181	(A,113,110) IC	NJM2794V	D 201	(A,138,69) Diode Network		
IC 201	(A,124,85) IC	PML017A	D 241	(A,107,87) Diode NetWork	HZS12L(B1)	
IC 351	(A,90,136) IC	PAL007C	D 241	(11,107,07) Blode	1120122(81)	
IC 451	(B,152,82) IC	NJM2885DL1-33	D 251	(A,141,76) Diode Network		
IC 451 IC 501	(B,152,82) IC (A,54,59) Regulator IC	NJM2885DL1-33 BD9781HFP	D 301	(A,71,92) Diode	1SS133	E
	(B,152,82) IC (A,54,59) Regulator IC (A,126,47) IC		D 301 D 381	(A,71,92) Diode (A,68,92) Diode	1SS133 HZS9L(A3)	E
IC 501	(A,54,59) Regulator IC	BD9781HFP	D 301 D 381 D 382	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode	1SS133 HZS9L(A3) DAN202U	E
IC 501 IC 601	(A,54,59) Regulator IC (A,126,47) IC	BD9781HFP PEG429B8	D 301 D 381	(A,71,92) Diode (A,68,92) Diode	1SS133 HZS9L(A3)	E
IC 501 IC 601 IC 651 IC 731	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33	D 301 D 381 D 382 D 453	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400	E
IC 501 IC 601 IC 651 IC 731	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B	D 301 D 381 D 382 D 453	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,43,90) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M	D 301 D 381 D 382 D 453	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M BA6288FS	D 301 D 381 D 382 D 453 D 501 D 502	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,43,90) Diode (A,44,62) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M BA6288FS NJM2388F84	D 301 D 381 D 382 D 453 D 501 D 502 D 751	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,43,90) Diode (A,44,62) Diode (A,22,52) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3)	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M BA6288FS	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,43,90) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U	Ē
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M BA6288FS NJM2388F84	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802 D 803	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,44,62) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911 Q 101	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC (A,19,118) Transistor	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33 R5523N001B NJM2360M BA6288FS NJM2388F84 UMF23N	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802 D 803 D 804	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode (B,97,14) Diode (B,102,14) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U DAP202U DAN202U	<b>!</b>
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911 Q 101 Q 241	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC (A,19,118) Transistor (A,106,80) Transistor	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33  R5523N001B NJM2360M BA6288FS NJM2388F84 UMF23N  2SD1767	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802 D 803 D 804 D 805	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode (B,97,14) Diode (B,102,14) Diode (B,97,27) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U DAP202U DAN202U DAP202U DAP202U	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911 Q 101 Q 241 Q 242 Q 301 Q 302	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC (A,19,118) Transistor (A,106,80) Transistor (A,111,78) Transistor (A,124,107) Transistor (A,144,124) Transistor	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33  R5523N001B NJM2360M BA6288FS NJM2388F84 UMF23N  2SD1767 UMD3N IMH23 IMH23	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802 D 803 D 804 D 805 D 806	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode (B,102,14) Diode (B,97,27) Diode (B,102,27) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U DAN202U DAN202U DAP202U DAN202U DAP202U DAN202U	E
IC 501 IC 601 IC 651 IC 731 IC 781 IC 851 IC 871 IC 911 Q 101 Q 241 Q 242 Q 301	(A,54,59) Regulator IC (A,126,47) IC (A,139,63) IC (B,59,37) IC (B,65,71) IC (A,40,24) IC (A,149,17) IC (A,16,80) IC (A,19,118) Transistor (A,106,80) Transistor (A,111,78) Transistor (A,124,107) Transistor	BD9781HFP PEG429B8 S-80835CNNB-B8U NJM2885DL1-33  R5523N001B NJM2360M BA6288FS NJM2388F84 UMF23N  2SD1767 UMD3N IMH23	D 301 D 381 D 382 D 453 D 501 D 502 D 751 D 801 D 802 D 803 D 804 D 805	(A,71,92) Diode (A,68,92) Diode (A,98,77) Diode (A,148,89) Diode (A,44,62) Diode (A,22,52) Diode (B,97,22) Diode (B,102,22) Diode (B,97,14) Diode (B,102,14) Diode (B,97,27) Diode	1SS133 HZS9L(A3) DAN202U 1SR154-400 1SR154-400 RB060L-40 HZS7L(C3) DAP202U DAN202U DAP202U DAN202U DAP202U DAP202U	E

	Circ	uit Symbol and No.	Part No.	Cir	cuit Symbol and No.	Part No.
	· ·	<del></del>	· · · · · · · · · · · · · · · · · · ·			
	D 831	(A,89,10) LED	SMLE12BC7T(NP)	R 203	(A,117,75)	RS1/16S101J
	D 851	(A,38,17) Diode	RB551V-30	R 242	(A,109,75)	RS1/16S182J
	D 852	(A,35,32) Diode	HZS11L(A1)	R 251	(A,141,78)	RS1/16S104J
Α	D 871	(A,149,27) Diode	1SS133	R 252	(A,138,74)	RS1/16S104J
	D 872	(A,149,24) Diode	1SS133		(=	
				R 253	(B,134,109)	RS1/16S222J
	D 873	(A,53,9) Diode	HZS7L(B3)	R 254	(A,137,101)	RS1/10SR561J
	D 901	(A,22,67) Diode	HZS6L(B1)	R 301	(A,130,107)	RS1/16S390J
	D 902	(A,24,93) Diode	MPG06G-6415G50	R 302	(A,118,107)	RS1/16S390J
	D 921	(A,65,92) Diode	HZS7L(C3)	R 303	(A,150,124)	RS1/16S390J
	D 922	(A,85,69) Diode	HZS7L(B2)			
				R 304	(A,136,124)	RS1/16S390J
	D 931	(A,99,68) Diode	MPG06G-6415G50	R 305	(A,138,124)	RS1/16S390J
	D 941	(A,85,91) Diode	MPG06G-6415G50	R 306	(A,124,124)	RS1/16S390J
	D 942	(A,81,91) Diode	MPG06G-6415G50	R 307	(B,81,84)	RS1/16S102J
	D 961	(A,89,111) Diode	DAN202U	R 308	(A,129,107)	RS1/16S223J
В	D 981	(A,60,109) Diode	MPG06G-6415G50		( · · · · · · · · · · · · · · · · · · ·	
				R 309	(A,120,107)	RS1/16S223J
	D 982	(A,64,106) Diode	MPG06G-6415G50	R 310	(A,149,124)	RS1/16S223J
	ZNR401	(B,158,145) Surge Protecto		R 311	(A,134,124)	RS1/16S223J
	L 201	(A,122,71) Inductor	LCTAW2R2J2520	R 312	(A,140,124)	RS1/16S223J
	L 401	(B,170,145) Inductor	LCTAW220J2520	R 313	(A,125,124)	RS1/16S223J
	L 402	(A,154,109) Inductor	LAU1R0K		(5)	2011120222
-		/• · · ·		R 314	(B,129,125)	RS1/16S0R0J
	L 403	(A,157,100) Inductor	LAU2R2K	R 316	(B,139,125)	RS1/16S0R0J
	L 501	(A,44,69) Inductor	CTH1385	R 351	(B,130,95)	RS1/16S472J
	L 601	(A,98,53) Ferri-Inductor	LAU100K	R 352	(B,127,93)	RS1/16S472J
	L 781	(A,57,74) Inductor	CTF1713	R 353	(A,95,115)	RS1/16S182J
	L 782	(A,71,33) Inductor	CTF1379		(1)	20111202221
С		/• //• - · · · · ·		R 354	(A,95,118)	RS1/16S272J
	L 841	(A,112,31) Ferri-Inductor	LAU100K	R 355	(A,98,115)	RS1/16S182J
	L 852	(A,30,21) Inductor	CTF1660	R 356	(A,98,118)	RS1/16S272J
	L 961	(A,89,118) Inductor	LCTAW2R2J2520	R 357	(A,98,79)	RS1/16S472J
	L 981	(A,35,109) Choke Coil 600		R 358	(A,93,115)	RS1/16S182J
	X 601	(A,125,63) Crystal Resonator	15.000 MHZ CSS1653	D 050	(4.05.447)	D04/4000701
	VD054	(A 141 100) Carri fired 101	(P) COD1000	R 359	(A,95,117)	RS1/16S272J
	VR251	(A,141,100) Semi-fixed 10 k	` '	R 360	(A,100,115)	RS1/16S182J
	<b>∴</b> FU301	(B,123,129) Fuse 3 A	CEK1286	R 361	(A,98,117)	RS1/16S272J
	<u> </u>	Fuse 10 A	YEK5001	R 362	(A,95,84)	RS1/16S103J
	MIC251	(A,143,109) Microphone	CPM1068 CPV1062	R 363	(A,97,87)	RS1/16S103J
	SP601	(A,147,68) Buzzer	CPV 1062	D 064	(A OF 90)	DC1/16C001 I
D	V 404	(A 107 140) FM/AM Towns	In:t CMECCOT	R 364 R 365	(A,95,89) (B,88,84)	RS1/16S331J RS1/16S101J
D	Y 401	(A,167,148) FM/AM Tuner l	Jnit CWE2097	R 366	(A,108,115)	RS1/16S1013
	DECICEO	20		R 381	(A,91,96)	RS1/16S473J
	RESISTOR	<u>15</u>		R 382	(A,99,74)	RS1/16S223J
		( <del>-</del> )		11 302	(A,99,74)	1101/1002200
	R 101	(B,23,128)	RS1/16S620J	R 383	(A,91,97)	RS1/16S104J
	R 102	(B,24,125)	RS1/16S101J	R 401	(B,170,111)	RS1/16S681J
	R 103	(B,23,131)	RS1/16S101J	R 402	(A,160,110)	RS1/16S681J
	R 104	(A,20,120)	RS1/16S222J	R 403	(A,159,110)	RS1/16S681J
	R 105	(A,11,118)	RS1/16S181J	R 405	(B,164,117)	RS1/16S681J
	D 106	/A 14 110\	DC1/16C104 I		\=,·-·,···/	
	R 106 R 107	(A,14,118)	RS1/16S181J RS1/16S223J	R 406	(B,163,129)	RS1/16S681J
	R 107 R 108	(A,14,117) (A,11,117)	RS1/16S223J	R 407	(B,162,129)	RS1/16S681J
E	R 113		RS1/10SR102J	R 408	(A,151,104)	RAB4C223J
	R 114	(A,14,115) (A,11,115)	RS1/10SR102J	R 502	(B,39,59)	RS1/10SR471J
	П 114	(A,11,115)	H3 1/103H 102J	R 503	(A,46,54)	RS1/16S3302F
	R 115	(A,19,115)	RS1/16S562J		, , , , , , , , , , , , , , , , , ,	
	R 116	(A,87,56)	RS1/10SR102J	R 504	(A,45,52)	RS1/16S333J
	R 117	(A,17,115)	RS1/16S332J	R 505	(A,43,54)	RS1/16S8201F
	R 151	(B,29,131)	RS1/16S102J	R 506	(A,45,55)	RS1/16S683J
	R 151	(B,29,129)	RS1/16S102J	R 507	(A,45,60)	RS1/16S823J
	11 132	(0,00,100)	110 1/100 1020	R 601	(A,113,47)	RS1/16S104J
	R 181	(A,117,124)	RS1/16S181J		•	
	R 182	(A,117,124) (A,114,124)	RS1/16S181J	R 602	(A,113,43)	RS1/16S104J
	R 183	(A,114,124) (A,115,121)	RS1/16S223J	R 603	(A,113,45)	RS1/10SR102J
F	R 184	(A,118,121)	RS1/16S223J	R 604	(B,119,37)	RS1/16S681J
r'	R 201	(A,119,75)	RAB4C102J	R 605	(A,116,61)	RS1/16S472J
	11 201	(· ·, · · · · · / · / · / · / · · / · · · / · · · / · · · · / · · · · · · / ·	1.0.10-10-10-10-10-10-10-10-10-10-10-10-10-1	R 606	(A,116,59)	RS1/16S472J
	R 202	(A,115,75)	RS1/16S101J			
		, , , - /		R 607	(A,118,33)	RS1/16S104J
			DEH-P7000UB/X	(N/FW5		
	70		DE111 70000D/7		_	

	5	6	_		7		8		_
	Circuit Symbol and No			<u>Circu</u>	uit Symbol and I	<u> </u>	Part No.		
R 60	08 (A,123,28)	RS1/16S104J	R	921	(A,78,69)		RS1/16S104J		
R 60		RS1/16S222J		922	(A,81,64)		RS1/16S103J		
R 61	10 (B,121,55)	RS1/16S473J	R	923	(A,79,69)		RS1/16S473J		
R 61	I1 (B,126,60)	RS1/16S0R0J	R	924	(A,82,64)		RS1/16S223J		Α
Б. 6.	(D. 404.07)	D04/4004701		005	(4.00.70)		D04/4004704		
R 61	,	RS1/16S472J		925	(A,88,73)		RS1/16S472J		
R 61		RS1/16S473J		931	(B,116,65)		RS1/16S103J		
R 61		RS1/16S104J		961	(A,90,102)		RS1/10SR102J		
R 61	,	RS1/16S102J		962	(A,89,108)		RS1/16S472J		
R 61	16 (B,110,55)	RS1/16S104J	К	964	(A,88,114)		RS1/16S153J		
R 61	17 (B,103,59)	RS1/16S104J	R	983	(A,74,125)		RS1/4SA102J		_
R 61	,	RS1/10SR102J		984	(A,68,125)		RS1/4SA102J		
R 61		RS1/16S104J			, , ,				
R 62		RS1/16S103J	CA	APACITO	ORS				
R 62	21 (B,142,49)	RS1/16S473J							
			С	101	(B,17,132)		CKSRYB104K16		В
R 62		RS1/16S223J	С	102	(B,26,121)		CKSRYB102K50		
R 62		RS1/16S104J		103	(B,26,123)		CKSRYB102K50		
R 62	28 (A,117,34)	RS1/16S104J	С	181	(B,122,125)		CKSRYB104K16		
R 62	,	RS1/16S473J	С	182	(A,115,122)		CKSRYB472K50		
R 64	11 (A,140,31)	RS1/16S104J							
				183	(A,118,122)		CKSRYB472K50		
R 65	,	RS1/16S183J	С	184	(A,114,117)		CKSRYB105K10		-
R 65	,	RS1/16S473J	С	185	(A,115,117)		CKSRYB105K10		
R 65		RS1/10SR102J	С	186	(A,117,117)		CKSRYB105K10		
R 65	,	RS1/10SR102J	С	187	(A,118,117)		CKSRYB105K10		
R 70	01 (B,63,44)	RS1/16S473J	•		(A (		01/05/5/5/6		
D 70	20 (4.00.20)	DAD4C4701		188	(A,114,105)		CKSRYB104K16		_
R 70 R 70		RAB4C472J RS1/16S104J		189	(A,113,102)		CEJQ220M16		С
R 70		RS1/16S221J		201	(A,126,75)		CEJQ470M16		
R 70		RS1/16S221J		202	(B,126,77)		CKSRYB104K16		
R 70		RS1/16S221J	C	203	(A,137,67)		CCSRCH470J50		
11.70	(5,50,41)	1101/1002210	•	205	(A 107.71)		CKSRYB474K10		
R 70	07 (B,69,42)	RS1/16S221J		206	(A,127,71) (A,132,76)		CEJQ100M16		_
R 70	( ' ' '	RS1/16S221J		207	(B,110,78)		CKSRYB105K10		
R 70		RS1/16S102J		208	(B,108,76)		CKSRYB105K10		
R 75		RD1/4PU102J		209	(B,107,71)		CKSRYB105K10		
R 78		RS1/16S103J	O	200	(D, 107,71)		OKOTTIBIOSKIO		
			С	210	(B,109,73)		CKSRYB105K10		
R 80	01 (B,106,24)	RS1/16S222J		211	(B,139,85)		CKSRYB224K16		
R 80	02 (B,114,27)	RS1/16S222J		212	(B,140,82)		CKSRYB224K16		D
R 80		RS1/16S222J		213	(B,84,71)		CKSRYB105K10		
R 80		RS1/16S222J	С	214	(B,88,75)		CKSRYB105K10		
R 80	05 (B,116,14)	RS1/16S222J			,				
			С	215	(B,88,73)		CKSRYB105K10		
R 80	,	RS1/16S222J	С	216	(B,83,74)		CKSRYB105K10		
R 80		RS1/16S104J		217	(A,114,84)		CKSQYB475K10		
R 80	,	RS1/16S104J		218	(A,135,84)		CKSQYB475K10		
R 82		RS1/16S473J RS1/16S1R0J	С	219	(A,112,88)		CKSQYB475K10		
R 82	22 (A,44,39)	H21/1021H03	_	000	(A 407.00)		OKOOVE 475K40		
R 82	24 (A,41,47)	RS1/10SR561J		220	(A,137,88)		CKSQYB475K10		
R 83		RS1/16S331J		221	(A,115,91)		CKSQYB475K10		
R 84	,	RS1/10SR102J		222	(A,135,92)		CKSQYB475K10		E
R 84	,	RS1/16S472J		224	(A,119,97)		CEJQ100M16		
R 85		RD1/4PU272J	C	241	(A,113,97)		CEJQ470M16		
	(,,,		C	242	(B,113,93)		CKSRYB104K16		
R 85	53 (B,42,24)	RS1/16S101J		243	(A,104,87)		CKSRYB224K16		
R 85		RS1/16S101J		251	(A,135,105)		CEJQ100M16		
R 85		RS1/10SR821J		252	(A,132,69)		CEJQNP100M16		
R 85		RS1/16S1R0J		253	(A,135,111)		CEJQ220M16		
R 85		RS1/10SR561J	Ü		, -, -==, /				
			С	254	(A,145,100)		CKSRYB474K10		
R 87	,	RS1/10SR102J		301	(A,129,102)		CEJQ100M16		
R 87	,	RAB4C102J		302	(A,123,102)		CEJQ100M16		
R 90	,	RS1/16S223J		303	(A,146,120)		CEJQ100M16		F
R 90		RS1/16S681J	С	304	(A,133,120)		CEJQ100M16		
R 90	03 (B,32,73)	RS1/16S681J							
D 04	I1 (D 10 00)	DC1/1604701	С	305	(A,140,120)		CEJQ100M16		
R 91	I1 (B,19,88)	RS1/16S473J			ı				
_	_		DEH-P7000UB/	XN/EW5	_		_	71	_
	5	6			<sup>'</sup> 7		8	-	-

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	Circ	uit Symbol and No.	Part No.	ı Circ	3 cuit Symbol and No.	Part No.
	C 306	(A,126,120)	CEJQ100M16	C 877	(A,56,7)	CKSRYB224K16
	C 300	(A,78,83)	CEJQ220M16	C 901	(A,56,7) (A,21,74)	CEHAR220M16
	C 352	(A,95,121)	CKSRYB474K10	C 902	(B,25,75)	CKSRYB104K16
	C 353	(A,98,121)	CKSRYB474K10	C 903	(B,22,64)	CKSRYB103K50
Α		, , ,			( , , ,	
	C 354	(A,100,121)	CKSRYB474K10	C 904	(A,31,86) 1 500 $\mu$ /16 V	CCH1201
	C 355	(A,93,121)	CKSRYB474K10	C 911	(A,22,85)	CEHAS101M10
	C 356	(A,85,83)	CEJQ330M10	C 912	(B,19,84)	CKSRYB103K50
	C 357	(A,95,124)	CKSQYB474K16	C 913	(A,18,98)	CEJQ101M16
	C 358	(A,98,124)	CKSQYB474K16	C 931	(B,116,63)	CKSRYB105K16
-	C 359	(A,100,124)	CKSQYB474K16	C 941	(B,87,91)	CKSRYB473K50
	C 360	(A, 100, 124) (A, 93, 124)	CKSQYB474K16	C 961	(A,90,114)	CKSRYB104K16
	C 361	(A,95,124)	CKSQYB225K10	C 981	(B,52,138)	CKSRYB104K16
	C 362	(A,99,128)	CKSQYB225K10	C 982	(B,54,138)	CKSRYB104K16
	C 364	(A,91,83)	CEJQ100M16		(=,= :,: ==,	
В				В		
	C 365	(B,97,144)	CKSRYB104K16		_	
	C 366	(A,54,118) 3 300 μF/16 V	CCH1486	Unit Nu	mber:	
	C 402	(B,164,106)	CKSRYB103K50	Unit Na	me : Keyboard	Unit
	C 403	(B,164,111)	CKSRYB103K50			
	C 404	(A,160,143)	CKSRYB103K50	MISCELL	ANEOUS	
	C 405	(A,157,105)	CEJQ470M6R3			
-	C 405	(A, 157, 105) (A, 157, 115)	CEJQ101M16	IC 1901	(B,96,23) IC	PEG432A
	C 408	(B,170,105)	CCSRCH101J50	IC 1921	(A,148,25) IC	PD8177A
	C 451	(A,155,89)	CEJQ220M16	IC 1931	(A,77,35) IC	GP1UX31RK
	C 452	(B,148,87)	CKSRYB103K50	IC 1951	(B,75,14) IC	S-1200B33-M5
		,		Q 1833	(B,33,10) Transistor	DTC123JU
С	C 453	(B,147,74)	CKSYB475K16			
	C 501	(A,37,59) 100 μF/6.3 V	CCH1804	Q 1961	(A,133,18) Transistor	2SC4617
	C 502	(A,42,79)	CEJQ221M16	Q 1962	(A,126,17) Transistor	2SD1664
	C 503	(A,48,52)	CKSRYB221K50	D 1831	(A,60,12) LED	SMLE12BC7T(NP)
	C 504	(A,52,65)	CKSRYB105K16	D 1832 D 1833	(A,8,35) LED	SMLE12BC7T(NP)
	0.500	(8.45.57)	OKODYD400KF0	D 1033	(A,153,5) LED	SMLE12BC7T(NP)
	C 506 C 507	(A,45,57) (A,47,59)	CKSRYB102K50 CKSRYB104K16	D 1834	(A,111,5) LED	SMLE12BC7T(NP)
	C 603	(B,123,66)	CCSRCH180J50	D 1835	(A,117,5) LED (A,132,5) LED	SMLE12BC7T(NP)
	C 604	(B,127,66)	CCSRCH180J50	D 1836	(A,23,12) LED	SMLE12BC7T(NP)
	C 606	(A,107,57)	CEJQ100M16	D 1837	(A,23,34) LED	SMLE12BC7T(NP)
		(-,,,,,		D 1838	(A,8,11) LED	SMLE12BC7T(NP)
	C 607	(B,126,55)	CKSRYB103K50			
D	C 609	(A,128,32)	CCSRCH101J50	D 1839	(A,60,34) LED	SMLE12BC7T(NP)
	C 651	(A,137,62)	CKSRYB105K10	D 1901	(B,84,16) Diode	1SS355
	C 652	(A,138,34)	CKSRYB104K16	L 1951	(B,81,10) Inductor	CTF1617
	C 701	(B,82,20)	CKSRYB104K16	L 1961	(A,131,18) Inductor	CTF1617
	0.704	(4.57.45)	05 100001440	TH1961	(A,136,22) Thermistor	CCX1037
_	C 731	(A,57,45)	CEJQ220M16	X 1901	(B,83,19) Ceramic Resonat	or 16 000 MHz   CSS1616
	C 732 C 733	(B,57,43) (B,56,28)	CKSRYB103K50 CKSRYB474K10	S 1801	(A,162,6) Push Switch	CSG1155
	C 751	(A,66,48)	CEJQ101M16	S 1811	(A,42,23) Switch (MULTI)	
	C 752	(B,80,47)	CKSRYB102K50	S 1831	(A,58,8) Push Switch	CSG1155
		,		S 1832	(A,10,38) Push Switch	CSG1155
	C 753	(B,23,50)	CKSRYB473K50	_		
_	C 781	(B,63,76)	CKSRYB104K16	S 1833	(A,157,5) Push Switch	CSG1155
Е	C 782	(B,60,69)	CKSRYB104K16	S 1834	(A,115,5) Push Switch	CSG1155
	C 821	(B,35,44)	CKSRYB473K50	S 1835	(A,139,5) Push Switch	CSG1155
	C 841	(B,120,27)	CKSRYB473K50	S 1836 S 1837	(A,25,8) Push Switch	CSG1155 CSG1155
	C 852	(A,51,19)	CEJQ470M25	5 103/	(A,25,38) Push Switch	0301133
	C 852 C 853	(B,47,29)	CKSRYB103K50	S 1838	(A,10,8) Push Switch	CSG1155
	C 854	(A,42,19)	CCSRCH331J50	S 1839	(A,58,38) Push Switch	CSG1155
_	C 855	(A,42,29)	CKSRYB104K16		, , ,	
	C 856	(A,42,34)	CEJQ101M16	RESISTO	RS	
		•		<del></del>	=	
	C 858	(B,34,34)	CKSRYB104K16	R 1801	(B,102,38)	RS1/16S222J
	C 871	(B,149,29)	CCSRCH101J50	R 1802	(B,102,36)	RS1/16S222J
F	C 872	(B,146,32)	CKSRYB102K50	R 1803	(B,157,28)	RS1/16S333J
	C 873	(B,149,22)	CCSRCH101J50	R 1811	(B,54,27)	RS1/16S103J
	C 874	(A,73,7)	CEJQ220M16	R 1812	(B,29,26)	RS1/16S333J
	C 875	(A,70,10)	CKSRYB104K16	D 1010	(P 20 20)	DC1/16C1021
	0 0/5	(A, 10, 10)		R 1813	(B,29,28)	RS1/16S103J
	72	_	DEH-P7000UB	XN/EW5	_	_
		1 -	2	1	3	4 ■

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	Circu	₅ uit Symbol and No.	6 <u>Part No.</u>	-	Circu	7 iit Svmb	ool and No.	Part No.		
В	1814	(B,54,24)	RS1/16S102J	11.			CWX3526	<u> </u>		
	1815	(B,52,30)	RS1/16S332J	_						
	1816	(B,29,23)	RS1/16S102J	Ui	nit Nam	1e :	CD Core Un	lit		
R	1818	(B,66,11)	RS1/16S103J	(S	10.5CC	MP2-i	Pod)			Α
R	1819	(B,54,16)	RS1/16S222J							
R	1833	(B,61,27)	RS1/16S0R0J	<u>MI</u>	<u>SCELLA</u>	NEOUS	<u>i</u>			
	1834	(B,66,6)	RS1/16S821J			/• ·-\				
	1835	(B,20,15)	RS1/16S821J			(A,36,46)		PE5611B		
R	1838	(B,24,11)	RS1/16S0R0J			(A,24,30) (B,25,47)		S-93C66BD0I-J8 341S2094		_
Ь	1000	(B 00 14)	DC1/16C601 I			(A,29,15)		BA5839FP		
	1839 1840	(B,29,14) (B,30,14)	RS1/16S681J RS1/16S681J				Transistor	2SA1577		
	1841	(B,30,11)	RS1/16S271J				Chip Transistor	2SB1689		
	1843	(B,32,14)	RS1/16S681J							
	1844	(B,34,14)	RS1/16S681J				Transistor	2SA1577		
								r 16.934 MHz CSS	1603	В
	1901	(A,98,33)	RS1/16S103J			( , , -,	Oscillator 32.768			
	1902	(A,93,25)	RS1/16S473J				Oscillator 48.000 Switch(HOME)	CSN1067		
	1903	(B,81,15)	RS1/16S154J	3	901	(A,35,37)	SWILCH (HOIVIE)	C3N1007		
	1904 1905	(B,84,27) (B,66,21)	RAB4CQ102J RS1/16S104J	S	903	(B.20.59)	Switch(DSCSNS)	CSN1067		
П	1905	(6,00,21)	NO 1/100 1040				Switch(12EJ)	CSN1068		
R	1906	(B,95,34)	RAB4CQ473J				Switch(8EJ)	CSN1068		
	1907	(B,93,11)	RAB4CQ102J							
	1908	(A,93,16)	RS1/16S221J	RE	SISTOR	<u>s</u>				
R	1909	(B,98,34)	RAB4CQ473J							
R	1910	(B,141,13)	RAB4CQ101J			(B,61,74)		RS1/10SR2R4J		
_		( <del>-</del>				(B,61,72)		RS1/10SR2R4J		
	1911	(B,134,13)	RAB4CQ101J			(B,61,71)		RS1/10SR2R7J		С
	1912	(B,130,15)	RAB4CQ101J			(B,54,67)		RS1/16SS222J		
	1913 1914	(A,102,33) (B,102,34)	RS1/16S101J RS1/16S101J	n	105	(B,45,58)		RS1/16SS102J		
	1915	(B,147,26)	RAB4CQ101J	R	107	(B,52,60)		RS1/16SS105J		
	1010	(2,117,20)	1111121001010			(A,20,33)		RS1/16S472J		
R	1916	(A,147,16)	RAB4CQ101J			(A,27,33)		RS1/16SS473J		_
R	1917	(A,144,16)	RAB4CQ101J	R	203	(A,51,44)		RS1/16S473J		
	1918	(A,131,30)	RAB4CQ101J			(A,24,58)		RS1/16SS221J		
	1919	(A,106,33)	RAB4CQ101J	R	206	(B,10,27)		RS1/16SS104J		
R	1920	(A,108,23)	RAB4CQ101J	5	040	(D. 40.00)		D04/40004001		
Ь	1021	(P. 94.20)	RS1/16S101J	_		(B,10,23)		RS1/16SS102J		
	1931 1932	(B,84,30) (B,75,36)	RS1/16S1013		214 216	(B,50,50) (B,49,49)		RS1/16SS472J RS1/16SS472J		D
	1933	(B,72,27)	RS1/16S2R2J			(A,51,48)		RS1/16SS103J		
	1951	(B,75,10)	RS1/16S222J			(A,51,46)		RS1/16SS103J		
	1961	(A,135,25)	RS1/16S333J			( , , ,				
				R	223	(B, 14, 43)		RS1/16SS473J		
	1962	(A,135,18)	RS1/16S183J			(A,51,50)		RS1/16SS103J		
	1963	(A,137,23)	RS1/16S563J			(A,51,51)		RS1/16SS393J		
	1964	(A,111,22)	RS1/16S392J		227	(B,48,52)		RS1/16SS562J		
	1965 1966	(A,108,20) (A,128,22)	RAB4CQ101J RS1/16S5101D	n	228	(B,45,52)		RS1/16SS122J		
11	.000	· ·, · - ·, /	. 10 1, 1000 10 10	R	229	(B,47,54)		RS1/16SS472J		
C	APACITO	ORS				(B,22,25)		RS1/16SS0R0J		
				R		(B,46,52)		RS1/16SS122J		_
С	1901	(A,89,23)	CKSRYB103K50			(B, 26, 59)		RS1/16SS103J		E
С	1902	(B,81,17)	CKSRYF104Z25	R	234	(B,23,26)		RS1/16SS473J		
	1903	(B,106,25)	CKSRYB103K50	5	005	(A 00 F0)		DO4/40004701		
	1921	(B,157,31)	CKSRYB103K50			(A,26,59)		RS1/16SS473J		
С	1931	(B,78,26)	CKSYB106K6R3			(A,24,35) (B,14,26)		RS1/16SS151J RS1/16S473J		
0	1051	(P 75 10)	CKCDVB10EK10			(B,14,25)		RS1/16SS103J		
	1951 1952	(B,75,18) (B,77,10)	CKSRYB105K10 CKSRYB105K10			(A,22,25)		RS1/16S0R0J		_
	1953	(B,81,12)	CKSRYB105K10			(B,22,55)		RS1/16SS473J		
	1963	(A,113,22)	CKSRYB104K16			,				
	1964	(B,121,19)	CKSRYB104K16			(B,25,52)		RS1/16SS101J		
						(B,22,51)		RS1/16SS101J		
	1965	(A,127,22)	CKSRYB104K25			(B,21,48)		RS1/16SS101J		F
С	1966	(A,124,21)	CKSRYB104K25		254	(A,26,64)		RS1/16SS104J		
				н	255	(A,26,63)		RS1/16SS104J		
				R	256	(A,26,62)		RS1/16SS104J		
			Te.	DEH-P7000UB/		, , -,/				
		5	6	JEH-P/0000B/	AN/LVV3	7		8	73	
			-					-		

	Circ	cuit Symbol and No.	Part No.	<u>Cir</u>	cuit Symbol and No.	Part No.
	R 259	(A,28,66)	RS1/16SS0R0J	C 229	(B,48,60)	CKSSYB104K10
	R 261	(A,26,65)	RS1/16SS104J			
	R 262	(A,30,60)	RS1/16SS0R0J	C 236	(A,50,58)	CKSSYB104K10
	R 263	(A,28,63)	RS1/16SS0R0J	C 239	(B,47,52)	CCSSCH220J50
Α				C 240	(A,38,61)	CKSSYB104K10
	R 273	(B,19,48)	RS1/16SS103J	C 243	(B,22,41)	CKSQYB475K6R3
	R 274	(B,18,51)	RS1/16SS104J	C 250	(A,52,48)	CKSSYB102K50
	R 275	(B,19,51)	RS1/16SS104J			
	R 276	(B,20,51)	RS1/16SS104J	C 251	(A,52,46)	CKSSYB102K50
	R 277	(B,24,52)	RS1/16SS103J	C 260	(A,28,61)	CKSSYB104K10
				C 261	(B,34,67)	CCSSCH8R0D50
	R 278	(B,27,51)	RS1/16SS1003D	C 262	(B,32,66)	CCSSCH8R0D50
	R 279	(B,23,52)	RS1/16SS104J	C 290	(B,22,43)	CKSSYB104K10
	R 282	(A,30,61)	RS1/16SS240J			
	R 283	(A,29,61)	RS1/16SS240J	C 291	(B,17,42)	CCSSCH5R0C50
	R 284	(B,30,63)	RS1/16SS153J	C 292	(B,17,48)	CCSSCH5R0C50
В				C 293	(B,44,61)	CKSSYB102K50
_	R 285	(B,28,63)	RS1/16SS153J	C 294	(B,25,41)	CKSSYB103K16
	R 289	(B,19,45)	RS1/16SS0R0J	C 295	(B,56,61)	CKSQYB106K6R3
	R 291	(B,43,62)	RS1/16SS272J			
	R 292	(B,25,43)	RS1/16SS221J	C 296	(B,56,63)	CKSQYB106K6R3
	R 293	(B,27,52)	RS1/16SS472J	C 303	(A,36,19)	CKSSYB472K25
_				C 304	(A,36,21)	CKSSYB223K16
	R 294	(A,32,63)	RS1/16SS471J	C 307	(A,22,11)	CKSRYB104K16
	R 295	(B,55,64)	RS1/16SS103J	C 308	(B,11,18)	CKSRYB105K10
	R 307	(A,35,19)	RS1/16SS183J			
	R 308	(A,38,19)	RS1/16SS183J	C 703	(B,15,35)	CCSSCH101J50
	R 309	(A,35,21)	RS1/16SS183J	C 704	(B,12,36)	CKSSYB102K50
				C 711	(A,31,25)	CKSSYB104K10
С	R 310	(A,38,22)	RS1/16SS183J			
	R 601	(B,30,31)	RS1/16SS0R0J	D		
	R 602	(B,27,31)	RS1/16SS0R0J			
	R 606	(B,28,23)	RS1/16S0R0J	Unit Ni	ımber: CWS1389	
	R 701	(B,12,37)	RS1/16SS221J	Unit Na	ime : Switch Uni	it
	D 700	(4.04.50)	D04/40000044			
	R 702	(A,24,56)	RS1/16SS221J	MISCELL	LANEOUS	
	R 708	(B,15,37)	RS1/16S0R0J	MIOOLL	LANLOGO	
	R 712	(B,15,54)	RS1/16SS0R0J	S 1	(A,6,14) Switch(OPEN)	CSN1051
	R 713	(B,15,53)	RS1/16SS0R0J	S 2	(A,32,12) Spring Switch(Cl	
	CAPACIT	ODE		02	(71,02,12) Opinig Ownon(O	2002) 00111002
	CAPACII	<u>Uno</u>		Miscell	aneous Parts List	
D	C 106	(B,57,67)	CKSQYB475K6R3	WIISCCII	ancous i ans List	
	C 201	(A,27,30)	CKSRYB104K16		Dialous Unit/D10 E)/Coming	a) CVV1040
	C 202	(A,28,57)	CKSSYB104K10	M 1	Pickup Unit(P10.5)(Service Motor Unit(SPINDLE)	CXC7134
	C 204	(A,24,59)	CKSSYB104K10	M 2	Motor Unit(LOADING/CAR	
	C 205	(B,27,41)	CKSQYB475K6R3	IVI Z	Motor Unit(FLAP)	XXA7400
	C 206	(A,23,41)	CKSSYB104K10		Motor Officir EAL)	XXX/400
	0 200	(71,20,41)	010010101110			
-	C 207	(A,25,38)	CKSRYB104K16			
	C 209	(B,36,35)	CEVW220M6R3			
	C 210	(B,29,37)	CKSSYB104K10			
	C 211	(A,28,35)	CKSSYB104K10			
	C 212	(A,29,30)	CKSRYB104K16			
_		,				
Е	C 213	(A,46,39)	CKSSYB104K10			
	C 214	(A,29,34)	CKSSYB104K10			
	C 216	(A,51,52)	CKSSYB332K50			
	C 217	(A,48,52)	CKSSYB104K10			
	C 218	(A,50,52)	CKSSYB473K10			
_						
	C 219	(A,47,54)	CKSSYB104K10			
	C 220	(A,48,54)	CKSSYB182K50			
	C 221	(A,46,54)	CKSSYB104K10			
	C 222	(B,46,54)	CCSSCH560J50			
	C 223	(B,48,54)	CCSSCH4R0C50			
	0.001	(A 45 50)	01/00/15 : 5 : 1// 5			
F	C 224	(A,45,56)	CKSSYB104K10			
	C 226	(A,42,59)	CCSSCH680J50			
	C 227	(A,42,61)	CCSSCH470J50			
	C 228	(B,41,62)	CKSSYB103K16			

DEH-P7000UB/XN/EW5